Tobacco Institute Testing Laboratory

Market Sample 33

Test Report

"Tar", "Nicotine", and Carbon Monoxide Values

April 30, 1991

PM3001014504

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Alpine KFMHP	15.2±0.3	1.05±0.02	14.2±0.3
*Alpine KFMSP	15.7±0.3	1.08±0.02	15.5±0.4
Alpine 100's 100FMSP	14.7±0.3	1.11±0.02	13.9±0.2
Alpine Lights KFMHP	9.0±0.2	0.70±0.01	10.0±0.2
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.0±0.2
Alpine Lights 100's 100FMSP	9.4±0.2	0.78±0.02	11.2±0.3
American Filter King KFSP	15.7±0.2	1.20±0.02	14.1±0.2
American Filter 100's 100FSP	15.7±0.2	1.24±0.02	15.4±0.3
American Lights KFSP	11.1±0.2	0.92±0.02	11.9±0.3
American Lights 100's 100FSP	11.5±0.2	0.99±0.02	12.3±0.2
American Lights 100's Menthol 100FMSP	11.0±0.2	1.00±0.02	11.7±0.3
Belair KFMSP	10.0±0.2	0.81±0.02	10.0±0.2
Belair 100's 100FMSP	8.5±0.2	0.66±0.02	9.0±0.2
Belair Low Price KFMSP	14.7±0.2	1.20±0.02	13.7±0.3
Belair Low Price 100's 100FMSP	14.3±0.2	1.24±0.02	13.9±0.3
Belair Low Price Lights KFMSP	8.8±0.2	0.82±0.02	9.6±0.2
Belair Low Price Lights 100's 100FMSP	9.3±0.2	0.89±0.02	10.4±0.2
Benson & Hedges KFHP	14.9±0.3	1.28±0.03	11.7±0.2
Benson & Hedges 100's 100FHP	15.7±0.2	1.20±0.02	15.1±0.3
Benson & Hedges 100's Menthol 100FMHP	15.9±0.1	1.21±0.01	14.7±0.2
Benson & Hedges 100's 100FSP	15.7±0.3	1.17±0.03	15.4±0.3
*Benson & Hedges 100's Menthol 100FMSP	15.8±0.2	1.15±0.02	15.6±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2	0.46±0.01	6.0±0.2
*Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	4.7±0.1	0.41±0.01	5.7±0.2
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.88±0.01	11.1±0.1
Benson & Hedges Lights 100's Menthol 100FMHP	10.3±0.2	0.83±0.01	11.0±0.2
Benson & Hedges Lights 100's 100FSP	10.4±0.2	0.85±0.02	11.8±0.2
Benson & Hedges Lights 100's Menthol 100FMSP	9.9±0.2	0.82±0.02	10.8±0.2
Benson & Hedges Multifilter KFSP	10.9±0.3	0.90±0.03	9.8±0.3
Cambridge Full Flavor KFSP	16.5±0.2	1.13±0.02	14.8±0.3
Cambridge Full Flavor 100's 100FSP	16.7±0.3	1.16±0.02	16.0±0.3
Cambridge Lights KFSP	11.5±0.3	0.87±0.02	11.8±0.2
Cambridge Lights Menthol KFMSP	11.6±0.2	0.89±0.01	11.7±0.2
Cambridge Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.3±0.3
Cambridge Lights 100's Menthol 100FMSP	11.2±0.2	0.89±0.02	12.8±0.2
Cambridge Ultra Low Tar 100 100FSP	4.0±0.1	0.38±0.01	5.6±0.2
Camel RNFSP	21.7±0.4	1.43±0.04	13.3±0.4
Camel Filters KFHP	15.6±0.3	1.04±0.02	15.2±0.4

* Retested Brand

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Camel Filters KFSP	13.9±0.3	0.99±0.02	13.0±0.3
Camel Filters 100's 100FSP	16.1±0.3	1.02±0.01	17.2±0.3
Camel Lights KFHP	9.2±0.2	0.62±0.01	11.3±0.2
Camel Lights KFSP	10.7±0.2	0.77±0.02	11.3±0.2
Camel Lights 100's 100FSP	10.3±0.2	0.77±0.02	12.4±0.3
Capri 100FHP	9.0±0.2	0.79±0.02	5.9±0.2
Capri Menthol 100FMHP	8.9±0.2	0.74±0.01	5.8±0.1
Capri Super Slim 120's 120FHP	13.2±0.2	1.07±0.03	9.1±0.2
Capri Super Slim 120's Menthol 120FMHP	12.0±0.3	0.98±0.03	7.3±0.2
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	1.0±0.1	0.14±0.00	2.1±0.1
Carlton Menthol KFMSP	0.8±0.1	0.13±0.01	1.8±0.1
Carlton 83 KFHP	0.9±0.1	0.12±0.01	1.7±0.1
Carlton 100's 100FHP	0.9±0.1	0.14±0.01	1.4±0.1
Carlton 100's Menthol 100FMHP	0.6±0.1	0.11±0.01	1.0±0.1
Carlton 100's 100FSP	2.2±0.1	0.24±0.01	3.2±0.2
Carlton 100's Menthol 100FMSP	2.6±0.1	0.28±0.01	3.8±0.2
Carlton 120's 120FSP	5.4±0.2	0.53±0.02	4.5±0.1
Carlton 120's 120FMSP	5.2±0.2	0.53±0.02	4.5±0.2
Cartier 100 10's 100FHP	8.1±0.3	0.74±0.02	7.3±0.3
Cartier 100 10's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.8±0.2
Cartier 100 20's 100FHP	8.3±0.2	0.76±0.01	7.5±0.1
Cartier 100 20's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.6±0.2
Century 25's KFSP	14.6±0.3	0.98±0.03	17.0±0.4
Century 25's 100's 100FSP	15.2±0.3	1.10±0.02	18.3±0.4
Century 25's Lights KFSP	8.2±0.3	0.66±0.02	10.2±0.3
Century 25's Lights 100's 100FSP	10.8±0.3	0.91±0.02	12.3±0.3
Century 25's Lights 100's Menthol 100FMSP	11.0±0.3	0.81±0.02	12.9±0.3
Chelsea 100FHP	10.4±0.2	0.82±0.02	9.9±0.2
Chelsea Menthol 100FMHP	9.6±0.2	0.74±0.01	9.7±0.2
Chesterfield RNFSP	18.0±0.4	1.18±0.03	11.5±0.3
Chesterfield KNFSP	22.0±0.4	1.48±0.04	13.9±0.4
Chesterfield Filter Lights KFSP	9.3±0.2	0.74±0.91	10.8±0.2
Chesterfield Filter Lights 100's 100FSP	9.4±0.2	0.78±0.02	10.2±0.2
Commander RNFSP	21.8±0.5	1.45±0.03	12.4±0.5
Commander KNFSP	26.4±0.5	1.74±0.03	15.7±0.3
Doral Full Flavor KFSP	14.6±0.2	1.09±0.03	14.9±0.3
Doral Full Flavor Menthol KFMSP	15.2±0.4	1.09±0.02	14.7±0.3
Doral Full Flavor 100's 100FSP	14.7±0.2	1.10±0.02	16.8±0.3
Doral Full Flavor 100's Menthol 100FMSP	14.9±0.2	1.09±0.02	17.1±0.4

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Doral Lights KFSP	9.3±0.2	0.76±0.01	10.4±0.3
Doral Lights Menthol KFMSP	9.2±0.1	0.70±0.01	10.1±0.1
Doral Lights 100's 100FSP	10.2±0.2	0.88±0.02	10.4±0.3
Doral Lights Menthol 100's 100FMSP	8.7±0.2	0.69±0.02	11.9±0.3
Doral Ultra Lights KFSP	4.7±0.2	0.47±0.02	6.2±0.2
Doral Ultra Lights 100's 100FSP	4.7±0.2	0.47±0.01	7.1±0.2
English Ovals KNFHP	23.1±0.5	1.87±0.05	14.7±0.5
Eve Slim Lights 100's 100FHP	11.5±0.3	0.95±0.02	9.5±0.2
Eve Slim Lights 100's Menthol 100FMHP	11.6±0.2	0.99±0.02	9.4±0.2
Eve Lights 120's 120FHP	11.6±0.3	1.00±0.03	10.4±0.2
Eve Lights 120's Menthol 120FMHP	11.3±0.3	0.98±0.03	10.0±0.4
Eve Ultra Lights 120's 120FHP	5.0±0.1	0.48±0.02	3.7±0.1
Eve Ultra Lights 120's Menthol 120FMHP	5.0±0.1	0.50±0.02	3.6±0.1
Harley Davidson KFSP	10.3±0.2	0.81±0.02	11.4±0.1
Harley Davidson Lights KFSP	7.7±0.2	0.66±0.01	10.0±0.2
Herbert Tarcyton KNFSP	24.3±0.5	1.60±0.02	17.2±0.3
Heritage Lights KFSP	9.9±0.1	0.80±0.01	12.6±0.3
Heritage Lights 100s 100FSP	10.6±0.2	0.85±0.01	13.7±0.3
Kent Golden Lights KFHP	7.2±0.2	0.64±0.02	7.5±0.3
Kent Golden Lights KFSP	7.3±0.2	0.66±0.02	7.8±0.3
Kent Golden Lights Menthol KFMSP	7.6±0.2	0.69±0.02	7.9±0.2
Kent Golden Lights 100s 100FHP	8.0±0.3	0.74±0.02	7.9±0.4
Kent Golden Lights 100s 100FSP	8.0±0.2	0.76±0.02	7.8±0.3
Kent Golden Lights 100s Menthol 100FMSP	9.4±0.3	0.83±0.02	9.7±0.4
Kent KFHP	10.7±0.1	0.81±0.01	12.0±0.2
Kent KFSP	11.6±0.2	0.88±0.02	12.9±0.2
Kent 100s 100FSP	12.6±0.3	0.96±0.02	13.1±0.3
Kent 100s Menthol 100FMSP	11.8±0.3	0.92±0.02	12.7±0.3
Kent III KFSP	3.3±0.2	0.34±0.02	4.2±0.2
Kent III 100s 100FHP	5.1±0.1	0.49±0.01	7.0±0.2
Kent III 100s 100FSP	5.3±0.1	0.51±0.01	7.4±0.2
Kool RNFMSP	21.0±0.5	1.35±0.03	13.8±0.2
Kool KFMHP	15.6±0.3	1.15±0.02	15.4±0.3
Kool KFMSP	16.5±0.4	1.20±0.03	15.5±0.3
Kool Super Longs 100's 100FMSP	16.4±0.3	1.27±0.02	15.8±0.3
Kool Lights KFMSP	7.6±0.2	0.67±0.01	8.1±0.2
Kool Lights 100's 100FMSP	8.3±0.2	0.72±0.02	9.4±0.3
Kool Milds KFMHP	11.5±0.2	0.90±0.02	11.1±0.2
Kool Milds KFMSP	11.5±0.2	0.92±0.02	11.6±0.2
Kool Milds 100's 100FMSP	11.8±0.2	0.96±0.02	12.0±0.2

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Kool Ultra KFMSP	2.0±0.2	0.19±0.01	2.0±0.1
Kool Ultra 100's 100FMSP	5.2±0.2	0.47±0.02	5.0±0.2
L & M KFHP	12.6±0.2	0.99±0.01	12.2±0.3
L & M KFSP	12.4±0.2	0.97±0.02	12.1±0.3
L & M Super 100 100FSP	12.4±0.3	1.01±0.02	12.4±0.4
L & M Long Lights 100FSP	7.6±0.2	0.83±0.02	6.0±0.2
L & M 30's Lights 100's 100FSP	10.9±0.2	0.84±0.01	9.5±0.2
Lark KFSP	12.6±0.2	1.01±0.02	11.7±0.3
Lark 100FSP	13.3±0.2	1.12±0.02	12.8±0.2
Lark Lights KFSP	11.7±0.2	0.94±0.02	10.3±0.2
Lark Light 100's 100FSP	12.2±0.2	1.01±0.03	11.5±0.3
Lucky Strike RNFSP	24.1±0.5	1.59±0.03	16.3±0.5
Lucky Strike KFHP	12.9±0.2	1.00±0.02	13.1±0.3
Lucky Strike KFSP	12.9±0.3	1.00±0.02	13.2±0.2
Lucky Strike Filters 100's 100FSP	12.9±0.3	1.08±0.03	12.8±0.3
Lucky Strike Lights KFSP	7.9±0.2	0.68±0.01	9.3±0.2
Lucky Strike Lights 100's 100FSP	8.5±0.2	0.75±0.01	9.6±0.2
Magna KFHP	13.8±0.3	0.92±0.02	14.4±0.4
Magna KFSP	13.3±0.3	0.93±0.02	13.7±0.2
Magna Lites KFHP	8.6±0.2	0.60±0.01	10.9±0.2
Magna Lites KFSP	10.6±0.3	0.75±0.02	12.3±0.2
Malibu Filters KFSP	15.8±0.2	1.21±0.03	14.1±0.3
Malibu Menthol KFMSP	15.7±0.3	1.22±0.02	14.0±0.3
Malibu 100's 100FSP	15.4±0.2	1.22±0.02	14.8±0.3
Malibu Menthol 100's 100FMSP	11.0±0.3	0.95±0.02	11.8±0.3
Malibu Lights KFSP	8.3±0.2	0.73±0.01	8.7±0.2
Malibu Lights 100's 100FSP	8.5±0.2	0.77±0.02	10.4±0.3
Malibu Ultra Lights 100's 100FSP	5.5±0.2	0.52±0.01	7.4±0.3
Marlboro KFHP	15.7±0.3	1.12±0.02	13.7±0.3
Marlboro KFSP	15.8±0.2	1.13±0.01	14.2±0.2
Marlboro Menthol KFMSP	15.9±0.2	1.16±0.01	14.7±0.3
Marlboro 100's 100FHP	15.8±0.2	1.18±0.02	15.2±0.2
Marlboro 100's 100FSP	15.5±0.3	1.16±0.02	14.6±0.3
Marlboro 25's KFSP	15.8±0.2	1.14±0.02	14.1±0.3
*Marlboro Lights KFHP	10.8±0.2 ✓	0.79±0.02	11.5±0.3
Marlboro Lights Menthol KFMHP	9.3±0.2	0.78±0.01	9.4±0.2
Marlboro Lights KFSP	10.6±0.2	0.83±0.02	11.2±0.2
Marlboro Lights 100's 100FHP	10.0±0.1	0.81±0.01	11.0±0.2

* Retested Brand

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Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Marlboro Lights 100's Menthol 100FMHP	9.3±0.2	0.82±0.02	10.0±0.2
Marlboro Lights 100's 100FSP	10.1±0.2	0.82±0.02	11.4±0.3
Marlboro Lights 25's KFSP	10.8±0.2	0.85±0.02	11.3±0.3
Marlboro Ultra Lights (red) KFHP	5.4±0.1	0.49±0.01	6.9±0.1
Marlboro Ultra Lights (silver) KFHP	5.3±0.1	0.47±0.01	6.5±0.1
Marlboro Ultra Lights (red) 100's 100FHP	5.8±0.1	0.52±0.02	7.6±0.2
Marlboro Ultra Lights (silver) 100's 100FHP	6.0±0.1	0.55±0.01	8.2±0.1
Max 120s 120FSP	14.7±0.2	1.16±0.02	15.5±0.4
Max 120s Menthol 120FMSP	15.2±0.3	1.20±0.02	15.8±0.4
Merit De-Nic Low Tar KFSP	8.1±0.3	0.08±0.00	8.9±0.2
Merit De-Nic Low Tar Menthol KFMSP	7.7±0.1	0.08±0.00	8.4±0.2
Merit De-Nic Ultra Low Tar KFSP	3.3±0.2	< 0.05	3.5±0.1
Merit De-Nic Ultra Low Tar Menthol KFMSP	3.0±0.1	< 0.05	3.3±0.1
Merit KFHP	7.3±0.1	0.61±0.01	9.4±0.2
Merit KFSP	7.4±0.2	0.60±0.01	9.4±0.2
Merit Menthol KFMSP	7.6±0.2	0.65±0.02	9.3±0.2
Merit 100's 100FSP	9.1±0.2	0.75±0.02	10.9±0.3
Merit 100's 100FMSP	9.3±0.2	0.79±0.02	11.0±0.3
Merit Ultra Lights KFHP	4.5±0.1	0.45±0.01	5.5±0.1
Merit Ultra Lights KFSP	4.2±0.1	0.41±0.01	5.2±0.1
Merit Ultra Lights Menthol KFMSP	4.7±0.2	0.47±0.01	5.7±0.1
Merit Ultra Lights 100's 100FHP	5.8±0.2	0.57±0.02	6.6±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.1	0.52±0.01	7.1±0.2
Merit Ultra Lights 100's Menthol 100FMSP	4.6±0.1	0.46±0.01	6.1±0.2
Misty Slims 100's Lights 100FHP	8.0±0.2	0.74±0.01	8.3±0.2
Misty Slims 100's Lights Menthol 100FMHP	7.9±0.1	0.72±0.01	8.1±0.2
Montclair Full Flavor 100's 100FSP	15.3±0.2	1.20±0.02	16.1±0.3
Montclair Lights 100's 100FSP	11.4±0.3	0.97±0.02	13.1±0.3
Montclair Lights 100's Menthol 100FMSP	11.1±0.2	0.96±0.02	12.5±0.2
More 120s 120FSP	16.2±0.3	1.23±0.02	20.6±0.5
More 120s Menthol 120FMSP	15.8±0.2	1.27±0.02	19.9±0.4
More Lights 100s 100FHP	9.1±0.2	0.75±0.02	9.5±0.2
More Lights 100s Menthol 100FMHP	8.4±0.2	0.67±0.01	9.2±0.2
More Lights 120s 120FSP	11.6±0.3	0.93±0.02	17.4±0.5
More Lights 120s Menthol 120FMSP	11.8±0.2	0.97±0.02	18.1±0.5
More White Lights 120s 120FSP	9.7±0.2	0.78±0.02	13.3±0.3
More White Lights 120s Menthol 120FMSP	9.9±0.3	0.84±0.02	13.5±0.3
Newport KFMHP	15.2±0.4	1.14±0.03	15.4±0.3
Newport KFMSP	16.3±0.2	1.22±0.02	16.7±0.3
Newport 100's 100FMHP	18.3±0.2	1.38±0.02	19.2±0.3

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Newport 100's 100FMSP	18.0±0.3	1.37±0.03	18.7±0.3
Newport 25's KFMSP	16.4±0.3	1.20±0.02	17.1±0.3
Newport 25's 100's 100FMSP	17.6±0.3	1.35±0.03	18.3±0.3
Newport Lights KFMHP	7.5±0.2	0.66±0.02	8.7±0.3
Newport Lights KFMSP	8.0±0.2	0.70±0.02	8.9±0.3
Newport Lights 100's 100FMHP	8.1±0.2	0.75±0.02	8.1±0.3
Newport Lights 100's 100FMSP	8.2±0.2	0.76±0.02	8.1±0.3
Newport Stripes Lights 100s 100FHP	11.0±0.2	0.88±0.02	14.5±0.2
Newport Stripes Lights 100s Menthol 100FMHP	11.4±0.2	0.87±0.01	14.4±0.3
Next De-Nic Low Tar KFSP	8.0±0.2	0.07±0.00	8.8±0.2
Next De-Nic Low Tar Menthol KFMSP	7.5±0.2	0.07±0.00	8.2±0.2
Next De-Nic Low Tar 100 100FSP	8.7±0.2	0.09±0.00	8.9±0.1
Next De-Nic Low Tar 100 Menthol 100FMSP	9.7±0.2	0.09±0.00	9.2±0.1
Next De-Nic Ultra Low Tar KFSP	3.5±0.1	< 0.05	3.9±0.1
Next De-Nic Ultra Low Tar Menthol KFMSP	3.2±0.1	< 0.05	3.4±0.1
Next De-Nic 100's Ultra Low Tar 100FSP	5.0±0.1	0.06±0.01	6.0±0.1
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	4.5±0.2	0.06±0.00	5.2±0.2
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	0.8±0.1	0.13±0.01	2.0±0.1
Now Menthol KFMSP	0.7±0.1	0.12±0.00	1.8±0.1
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.6±0.1
Now 100s Menthol 100FMSP	1.7±0.1	0.20±0.01	2.8±0.1
Old Gold Straights KNFSP	25.5±0.5	1.79±0.04	17.3±0.5
Old Gold Filters KFSP	16.3±0.2	1.21±0.02	16.9±0.3
Old Gold Filter 100's 100FSP	17.6±0.3	1.36±0.03	17.8±0.3
Old Gold Lights KFSP	8.4±0.2	0.75±0.02	9.3±0.3
Old Gold Lights 100s 100FSP	11.2±0.3	0.91±0.02	14.8±0.4
Pall Mall KNFSP	24.6±0.4	1.66±0.04	16.1±0.3
Pall Mall 100's 100FSP	15.0±0.4	1.19±0.03	14.9±0.4
Pall Mall Lights 100's 100FSP	9.4±0.4	0.81±0.03	11.5±0.3
Pall Mall Red Filters KFSP	15.1±0.4	1.16±0.03	13.6±0.4
Pall Mall Red Filters 100's 100FSP	14.8±0.3	1.16±0.03	14.4±0.3
Pall Mall Red Lights KFSP	9.7±0.2	0.80±0.02	9.6±0.2
Pall Mall Red Lights 100's 100FSP	9.8±0.2	0.84±0.02	9.7±0.2
*Parliament Lights KFHP	8.8±0.2	0.71±0.02	9.4±0.2
Parliament Lights KFSP	9.1±0.2	0.75±0.02	9.8±0.3
Parliament Lights 100's 100FSP	11.5±0.2	0.98±0.02	11.6±0.2

* Retested Brand

Rev. 4/30/91

PM3001014511

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Philip Morris International 100FHP	16.5±0.2	1.25±0.02	16.8±0.2
Philip Morris International Menthol 100FMHP	16.6±0.2	1.29±0.02	15.9±0.3
Players RNFHP	24.5±0.5	1.81±0.04	14.3±0.5
Players KFHP	11.4±0.2	0.90±0.02	11.6±0.2
Players Menthol KFMHP	11.2±0.2	0.86±0.02	11.5±0.2
Players 100's 100FHP	13.4±0.3	1.06±0.02	12.1±0.3
Players 100's Menthol 100FMHP	13.6±0.2	1.07±0.02	12.0±0.2
Players Lights 25's KFSP	9.9±0.2	0.78±0.02	10.5±0.2
Players Lights 25's Menthol KFMSP	9.6±0.2	0.76±0.01	10.2±0.2
Players Lights 25's 100's 100FSP	11.0±0.2	0.87±0.02	12.4±0.3
Players Lights 25's 100's Menthol 100FMSP	10.8±0.3	0.87±0.02	12.7±0.3
Pyramid KNFSP	21.4±0.5	1.39±0.03	13.9±0.3
*Pyramid Full Flavor KFSP	13.6±0.2	1.05±0.02	13.2±0.2
*Pyramid Full Flavor Menthol KFMSP	13.7±0.2	1.07±0.02	13.2±0.2
*Pyramid Full Flavor 100's 100FSP	14.8±0.2	1.18±0.02	14.8±0.3
*Pyramid Full Flavor 100's Menthol 100FMSP	14.4±0.2	1.19±0.02	14.1±0.2
Pyramid Lights KFSP	10.0±0.2	0.81±0.02	11.9±0.3
Pyramid Lights 100's 100FSP	10.1±0.2	0.85±0.02	10.9±0.3
Pyramid Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	10.9±0.3
Pyramid Ultra Lights 100's 100FSP	5.3±0.2	0.51±0.01	5.0±0.2
Raleigh KNFSP	24.5±0.6	1.46±0.03	16.3±0.4
Raleigh KFSP	14.3±0.2	0.94±0.02	13.8±0.2
Raleigh 100's 100FSP	14.9±0.3	1.00±0.02	15.9±0.2
Raleigh Lights KFSP	11.3±0.2	0.89±0.02	12.2±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.95±0.02	14.4±0.3
Richland 20's KFSP	16.7±0.3	1.21±0.02	14.6±0.2
Richland 20's Menthol KFMSP	15.6±0.3	1.07±0.02	15.0±0.3
Richland 20's 100's 100FSP	17.4±0.3	1.33±0.02	16.5±0.3
Richland 20's 100's Menthol 100FMSP	15.8±0.2	1.16±0.02	15.8±0.2
Richland 20's Lights KFSP	11.5±0.2	0.92±0.02	12.1±0.3
Richland 20's Lights 100's 100FSP	12.3±0.2	0.95±0.01	14.4±0.3
Richland 25's KFSP	16.7±0.3	1.22±0.03	14.4±0.3
Richland 25's Menthol KFMSP	15.8±0.3	1.09±0.03	14.9±0.3
Richland 25's 100's 100FSP	17.1±0.2	1.33±0.03	16.2±0.2
Richland Lights 25's KFSP	11.3±0.2	0.90±0.02	12.3±0.2
Richland Lights 25's 100's 100FSP	12.7±0.2	0.98±0.02	14.3±0.3
Ritz 100 100FHP	9.5±0.2	0.78±0.01	10.1±0.3
Ritz 100 Menthol 100FMHP	10.8±0.2	0.82±0.02	11.4±0.3

* Retested Brand

Rev. 4/30/91

PM3001014512

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Salem KFMSP	16.8±0.3	1.20±0.03	16.6±0.3
Salem 100's 100FMSP	16.0±0.2	1.17±0.01	15.4±0.1
Salem Lights KFMSP	9.1±0.2	0.70±0.01	11.5±0.2
Salem Lights 100's 100FMHP	10.9±0.1	0.86±0.02	11.0±0.2
Salem Lights 100's 100FMSP	8.0±0.2	0.68±0.01	9.5±0.3
Salem Slim Lights 100's 100FMHP	8.5±0.1	0.71±0.02	8.8±0.2
Salem Ultra Lights KFMSP	4.6±0.1	0.43±0.01	6.9±0.2
Salem Ultra Lights 100's 100FMSP	4.4±0.2	0.42±0.01	6.8±0.2
Saratoga 120's 120FHP	14.7±0.3	1.16±0.02	14.1±0.2
Saratoga 120's Menthol 120FMHP	13.8±0.2	1.10±0.02	13.3±0.3
Satin 100FSP	10.8±0.3	0.90±0.02	12.4±0.3
Satin Menthol 100FMSP	10.7±0.3	0.91±0.02	12.3±0.3
Silva Thins Filters 100FHP	11.2±0.3	0.94±0.02	10.6±0.4
Silva Thins Menthol 100FMHP	11.6±0.2	0.99±0.02	10.8±0.2
Spring 100's Menthol 100FMSP	17.9±0.2	1.36±0.03	18.2±0.3
Spring Lemon Lights KFSP	9.3±0.2	0.77±0.01	11.6±0.2
Spring Lemon Lights Menthol KFMSP	8.2±0.2	0.71±0.01	10.1±0.3
Spring Lemon Lights 100's 100FSP	10.5±0.2	0.86±0.02	13.6±0.2
Spring Lemon Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	12.8±0.3
Tall 120's 120FSP	18.1±0.4	1.56±0.05	17.6±0.4
Tall 120's Menthol 120FMSP	16.5±0.3	1.47±0.03	15.9±0.3
Tareyton KFSP	13.8±0.2	1.01±0.02	15.1±0.3
Tareyton 100's 100FSP	13.7±0.3	1.02±0.02	16.7±0.4
Tareyton Lights KFSP	5.3±0.2	0.46±0.01	6.0±0.2
Tareyton Long Lights 100FSP	7.5±0.3	0.66±0.03	8.4±0.2
Triumph KFSP	3.3±0.2	0.34±0.01	4.1±0.2
Triumph Menthol KFMSP	3.3±0.1	0.34±0.01	4.2±0.2
Triumph 100s 100FSP	4.8±0.2	0.48±0.01	6.8±0.2
Triumph 100s Menthol 100FMSP	4.4±0.1	0.44±0.01	6.4±0.2
True KFSP	4.2±0.3	0.42±0.02	5.4±0.3
True KFMSP	4.2±0.4	0.42±0.03	5.1±0.4
True 100's 100FSP	6.3±0.3	0.60±0.02	6.6±0.3
True 100's 100FMSP	6.7±0.4	0.62±0.03	6.9±0.5
Vantage KFSP	7.9±0.2	0.60±0.02	10.2±0.2
Vantage Menthol KFMSP	9.3±0.2	0.68±0.01	11.7±0.3
Vantage 100s 100FSP	8.5±0.2	0.65±0.01	10.8±0.2
Vantage 100s Menthol 100FMSP	8.2±0.2	0.62±0.01	11.4±0.3
Vantage Ultra Lights KFSP	4.9±0.1	0.43±0.01	7.3±0.2
Vantage Ultra Lights 100s 100FSP	4.6±0.1	0.43±0.01	7.6±0.2
Viceroy KFSP	17.2±0.3	1.25±0.02	14.9±0.3

Rev. 4/30/91

PM3001014513

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Viceroy Super Long 100's 100FSP	18.0±0.3	1.37±0.02	15.5±0.3
Viceroy Lights KFSP	11.1±0.2	0.89±0.02	12.2±0.2
Viceroy Lights 100's 100FSP	12.6±0.2	0.98±0.01	14.1±0.3
Virginia Slims 100FSP	14.3±0.2	1.09±0.01	12.7±0.2
Virginia Slims Menthol 100FMSP	14.4±0.2	1.08±0.02	12.4±0.2
Virginia Slims Lights 100FHP	8.2±0.2	0.70±0.02	8.3±0.2
Virginia Slims Lights Menthol 100FMHP	7.6±0.2	0.64±0.01	8.2±0.2
Virginia Slims Lights 120's 120FHP	13.4±0.3	1.07±0.03	12.7±0.4
Virginia Slims Lights 120's Menthol 120FMHP	13.3±0.3	1.08±0.02	12.7±0.3
Virginia Slims Ultra Lights 100 100FHP	5.1±0.2	0.45±0.04	5.5±0.2
Virginia Slims Ultra Lights 100 Menthol 100FMHP	4.8±0.2	0.44±0.01	5.4±0.2
Virginia Slims Superslims 100 100FHP	6.0±0.2	0.54±0.02	7.4±0.4
Virginia Slims Superslims 100 Menthol 100FMHP	5.3±0.3	0.49±0.02	6.2±0.4
Winston KFHP	15.5±0.2	1.03±0.02	15.0±0.3
Winston KFSP	15.6±0.2	1.11±0.02	15.1±0.3
Winston 100's 100FSP	16.3±0.2	1.06±0.02	17.5±0.3
Winston Lights KFHP	9.1±0.2	0.61±0.02	11.0±0.3
Winston Lights KFSP	9.5±0.2	0.69±0.01	10.9±0.2
Winston Lights 100's 100FHP	9.9±0.2	0.74±0.01	12.1±0.1
Winston Lights 100's 100FSP	10.0±0.2	0.75±0.01	11.5±0.2
Winston Ultra Lights KFSP	5.1±0.1	0.45±0.01	8.0±0.1
Winston Ultra Lights 100's 100FSP	4.5±0.1	0.42±0.01	7.4±0.2
Craven A KFHP	14.1±0.3	1.19±0.02	13.0±0.4
Craven A Filter Standard Size RFHP	15.2±0.3	1.20±0.03	12.5±0.2
Dunhill International 100FHP	15.9±0.3	1.52±0.03	15.4±0.4
Dunhill Menthol 100FMHP	13.7±0.3	1.21±0.02	15.1±0.3
Dunhill Menthol Mild 100FMHP	9.8±0.2	0.92±0.02	11.1±0.2
Dunhill International Superior Mild 100FHP	8.6±0.3	0.81±0.03	9.3±0.3
Rothmans KFHP	17.1±0.3	1.34±0.03	16.5±0.3
Rothmans Special Mild KFHP	12.4±0.3	1.05±0.03	12.9±0.4
St. Moritz Filter 100FSP	14.4±0.2	1.08±0.02	14.9±0.3
St. Moritz Filter Menthol 100FMSP	13.9±0.3	1.04±0.03	15.0±0.3

PM3001014514

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Alpine KFMHP	15	1.0	14
*Alpine KFMSP	16	1.1	15
Alpine 100's 100FMSP	15	1.1	14
Alpine Lights KFMHP	9	0.7	10
Alpine Lights KFMSP	9	0.7	10
Alpine Lights 100's 100FMSP	9	0.8	11
American Filter King KFSP	16	1.2	14
American Filter 100's 100FSP	16	1.2	15
American Lights KFSP	11	0.9	12
American Lights 100's 100FSP	11	1.0	12
American Lights 100's Menthol 100FMSP	11	1.0	12
Belair KFMSP	10	0.8	10
Belair 100's 100FMSP	8	0.7	9
Belair Low Price KFMSP	15	1.2	14
Belair Low Price 100's 100FMSP	14	1.2	14
Belair Low Price Lights KFMSP	9	0.8	10
Belair Low Price Lights 100's 100FMSP	9	0.9	10
Benson & Hedges KFHP	15	1.3	12
Benson & Hedges 100's 100FHP	16	1.2	15
Benson & Hedges 100's Menthol 100FMHP	16	1.2	15
Benson & Hedges 100's 100FSP	16	1.2	15
*Benson & Hedges 100's Menthol 100FMSP	16	1.2	16
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5	0.5	6
*Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	5	0.4	6
Benson & Hedges Lights 100's 100FHP	11	0.9	11
Benson & Hedges Lights 100's Menthol 100FMHP	10	0.8	11
Benson & Hedges Lights 100's 100FSP	10	0.8	12
Benson & Hedges Lights 100's Menthol 100FMSP	10	0.8	11
Benson & Hedges Multifilter KFSP	11	0.9	10
Cambridge Full Flavor KFSP	17	1.1	15
Cambridge Full Flavor 100's 100FSP	17	1.2	16
Cambridge Lights KFSP	12	0.9	12
Cambridge Lights Menthol KFMSP	12	0.9	12
Cambridge Lights 100's 100FSP	12	0.9	13
Cambridge Lights 100's Menthol 100FMSP	11	0.9	13
Cambridge Ultra Low Tar 100 100FSP	4	0.4	6
Camel RNFSP	22	1.4	13
Camel Filters KFHP	16	1.0	15

* Retested Brand

Rev. 4/30/91

PM3001014515

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Camel Filters KFSP	14	1.0	13
Camel Filters 100's 100FSP	16	1.0	17
Camel Lights KFHP	9	0.6	11
Camel Lights KFSP	11	0.8	11
Camel Lights 100's 100FSP	10	0.8	12
Capri 100FHP	9	0.8	6
Capri Menthol 100FMHP	9	0.7	6
Capri Super Slim 120's 120FHP	13	1.1	9
Capri Super Slim 120's Menthol 120FMHP	12	1.0	7
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	1	0.1	2
Carlton Menthol KFMSP	1	0.1	2
Carlton 83 KFHP	1	0.1	2
Carlton 100's 100FHP	1	0.1	1
Carlton 100's Menthol 100FMHP	1	0.1	1
Carlton 100's 100FSP	2	0.2	3
Carlton 100's Menthol 100FMSP	3	0.3	4
Carlton 120's 120FSP	5	0.5	5
Carlton 120's 120FMSP	5	0.5	4
Cartier 100 10's 100FHP	8	0.7	7
Cartier 100 10's Menthol 100FMHP	8	0.8	8
Cartier 100 20's 100FHP	8	0.8	8
Cartier 100 20's Menthol 100FMHP	8	0.8	8
Century 25's KFSP	15	1.0	17
Century 25's 100's 100FSP	15	1.1	18
Century 25's Lights KFSP	8	0.7	10
Century 25's Lights 100's 100FSP	11	0.9	12
Century 25's Lights 100's Menthol 100FMSP	11	0.8	13
Chelsea 100FHP	10	0.8	10
Chelsea Menthol 100FMHP	10	0.7	10
Chesterfield RNFSP	18	1.2	11
Chesterfield KNFSP	22	1.5	14
Chesterfield Filter Lights KFSP	9	0.7	11
Chesterfield Filter Lights 100's 100FSP	9	0.8	10
Commander RNFSP	22	1.4	12
Commander KNFSP	26	1.7	16
Doral Full Flavor KFSP	15	1.1	15
Doral Full Flavor Menthol KFMSP	15	1.1	15
Doral Full Flavor 100's 100FSP	15	1.1	17
Doral Full Flavor 100's Menthol 100FMSP	15	1.1	17

Rev. 4/30/91

PM3001014516

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Doral Lights KFSP	9	0.8	10
Doral Lights Menthol KFMSP	9	0.7	10
Doral Lights 100's 100FSP	10	0.9	10
Doral Lights Menthol 100's 100FMSP	9	0.7	12
Doral Ultra Lights KFSP	5	0.5	6
Doral Ultra Lights 100's 100FSP	5	0.5	7
English Ovals KNFHP	23	1.9	15
Eve Slim Lights 100's 100FHP	12	1.0	9
Eve Slim Lights 100's Menthol 100FMHP	12	1.0	9
Eve Lights 120's 120FHP	12	1.0	10
Eve Lights 120's Menthol 120FMHP	11	1.0	10
Eve Ultra Lights 120's 120FHP	5	0.5	4
Eve Ultra Lights 120's Menthol 120FMHP	5	0.5	4
Harley Davidson KFSP	10	0.8	11
Harley Davidson Lights KFSP	8	0.7	10
Herbert Tarcyton KNFSP	24	1.6	17
Heritage Lights KFSP	10	0.8	13
Heritage Lights 100s 100FSP	11	0.9	14
Kent Golden Lights KFHP	7	0.6	8
Kent Golden Lights KFSP	7	0.7	8
Kent Golden Lights Menthol KFMSP	8	0.7	8
Kent Golden Lights 100s 100FHP	8	0.7	8
Kent Golden Lights 100s 100FSP	8	0.8	8
Kent Golden Lights 100s Menthol 100FMSP	9	0.8	10
Kent KFHP	11	0.8	12
Kent KFSP	12	0.9	13
Kent 100s 100FSP	13	1.0	13
Kent 100s Menthol 100FMSP	12	0.9	13
Kent III KFSP	3	0.3	4
Kent III 100s 100FHP	5	0.5	7
Kent III 100s 100FSP	5	0.5	7
Kool RNFMSP	21	1.3	14
Kool KFMHP	16	1.1	15
Kool KFMSP	16	1.2	16
Kool Super Longs 100's 100FMSP	16	1.3	16
Kool Lights KFMSP	8	0.7	8
Kool Lights 100's 100FMSP	8	0.7	9
Kool Milds KFMHP	12	0.9	11
Kool Milds KFMSP	12	0.9	12
Kool Milds 100's 100FMSP	12	1.0	12

Rev. 4/30/91

PM3001014517

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Kool Ultra KFMSP	2	0.2	2
Kool Ultra 100's 100FMSP	5	0.5	5
L & M KFHP	13	1.0	12
L & M KFSP	12	1.0	12
L & M Super 100 100FSP	12	1.0	12
L & M Long Lights 100FSP	8	0.8	6
L & M 30's Lights 100's 100FSP	11	0.8	9
Lark KFSP	13	1.0	12
Lark 100FSP	13	1.1	13
Lark Lights KFSP	12	0.9	10
Lark Light 100's 100FSP	12	1.0	12
Lucky Strike RNFSP	24	1.6	16
Lucky Strike KFHP	13	1.0	13
Lucky Strike KFSP	13	1.0	13
Lucky Strike Filters 100's 100FSP	13	1.1	13
Lucky Strike Lights KFSP	8	0.7	9
Lucky Strike Lights 100's 100FSP	9	0.8	10
Magna KFHP	14	0.9	14
Magna KFSP	13	0.9	14
Magna Lites KFHP	9	0.6	11
Magna Lites KFSP	11	0.7	12
Malibu Filters KFSP	16	1.2	14
Malibu Menthol KFMSP	16	1.2	14
Malibu 100's 100FSP	15	1.2	15
Malibu Menthol 100's 100FMSP	11	1.0	12
Malibu Lights KFSP	8	0.7	9
Malibu Lights 100's 100FSP	9	0.8	10
Malibu Ultra Lights 100's 100FSP	5	0.5	7
Marlboro KFHP	16	1.1	14
Marlboro KFSP	16	1.1	14
Marlboro Menthol KFMSP	16	1.2	15
Marlboro 100's 100FHP	16	1.2	15
Marlboro 100's 100FSP	16	1.2	15
Marlboro 25's KFSP	16	1.1	14
*Marlboro Lights KFHP	11	0.8	12
Marlboro Lights Menthol KFMHP	9	0.8	9
Marlboro Lights KFSP	11	0.8	11
Marlboro Lights 100's 100FHP	10	0.8	11

* Retested Brand

Rev. 4/30/91

PM3001014518

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Marlboro Lights 100's Menthol 100FMHP	9	0.8	10
Marlboro Lights 100's 100FSP	10	0.8	11
Marlboro Lights 25's KFSP	11	0.9	11
Marlboro Ultra Lights (red) KFHP	5	0.5	7
Marlboro Ultra Lights (silver) KFHP	5	0.5	7
Marlboro Ultra Lights (red) 100's 100FHP	6	0.5	8
Marlboro Ultra Lights (silver) 100's 100FHP	6	0.5	8
Max 120s 120FSP	15	1.2	16
Max 120s Menthol 120FMSP	15	1.2	16
Merit De-Nic Low Tar KFSP	8	0.1	9
Merit De-Nic Low Tar Menthol KFMSP	8	0.1 Error	8
Merit De-Nic Ultra Low Tar KFSP	3	<0.05 ~~10.0~~	4
Merit De-Nic Ultra Low Tar Menthol KFMSP	3	<0.05 ~~10.0~~	3
Merit KFHP	7	0.6	9
Merit KFSP	7	0.6	9
Merit Menthol KFMSP	8	0.6	9
Merit 100's 100FSP	9	0.7	11
Merit 100's 100FMSP	9	0.8	11
Merit Ultra Lights KFHP	4	0.5	6
Merit Ultra Lights KFSP	4	0.4	5
Merit Ultra Lights Menthol KFMSP	5	0.5	6
Merit Ultra Lights 100's 100FHP	6	0.6	7
Merit Ultra Lights 100's 100FSP	5	0.5	7
Merit Ultra Lights 100's Menthol 100FMSP	5	0.5	6
Misty Slims 100's Lights 100FHP	8	0.7	8
Misty Slims 100's Lights Menthol 100FMHP	8	0.7	8
Montclair Full Flavor 100's 100FSP	15	1.2	16
Montclair Lights 100's 100FSP	11	1.0	13
Montclair Lights 100's Menthol 100FMSP	11	1.0	12
More 120s 120FSP	16	1.2	21
More 120s Menthol 120FMSP	16	1.3	20
More Lights 100s 100FHP	9	0.7	9
More Lights 100s Menthol 100FMHP	8	0.7	9
More Lights 120s 120FSP	12	0.9	17
More Lights 120s Menthol 120FMSP	12	1.0	18
More White Lights 120s 120FSP	10	0.8	13
More White Lights 120s Menthol 120FMSP	10	0.8	14
Newport KFMHP	15	1.1	15
Newport KFMSP	16	1.2	17
Newport 100's 100FMHP	18	1.4	19

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PM3001014519

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Newport 100's 100FMSP	18	1.4	19
Newport 25's KFMSP	16	1.2	17
Newport 25's 100's 100FMSP	18	1.4	18
Newport Lights KFMHP	8	0.7	9
Newport Lights KFMSP	8	0.7	9
Newport Lights 100's 100FMHP	8	0.7	8
Newport Lights 100's 100FMSP	8	0.8	8
Newport Stripes Lights 100s 100FHP	11	0.9	15
Newport Stripes Lights 100s Menthol 100FMHP	11	0.9	14
Next De-Nic Low Tar KFSP	8	0.1	9
Next De-Nic Low Tar Menthol KFMSP	7	0.1	8
Next De-Nic Low Tar 100 100FSP	9	0.1	9
Next De-Nic Low Tar 100 Menthol 100FMSP	10	0.1 Error	9
Next De-Nic Ultra Low Tar KFSP	3	~~< 0.05 – 10.0~~	4
Next De-Nic Ultra Low Tar Menthol KFMSP	3	~~< 0.05 – 10.0~~	3
Next De-Nic 100's Ultra Low Tar 100FSP	5	0.1	6
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	4	0.1	5
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	1	0.1	2
Now Menthol KFMSP	1	0.1	2
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Now 100s 100FSP	2	0.2	3
Now 100s Menthol 100FMSP	2	0.2	3
Old Gold Straights KNFSP	26	1.8	17
Old Gold Filters KFSP	16	1.2	17
Old Gold Filter 100's 100FSP	18	1.4	18
Old Gold Lights KFSP	8	0.7	9
Old Gold Lights 100s 100FSP	11	0.9	15
Pall Mall KNFSP	25	1.7	16
Pall Mall 100's 100FSP	15	1.2	15
Pall Mall Lights 100's 100FSP	9	0.8	11
Pall Mall Red Filters KFSP	15	1.2	14
Pall Mall Red Filters 100's 100FSP	15	1.2	14
Pall Mall Red Lights KFSP	10	0.8	10
Pall Mall Red Lights 100's 100FSP	10	0.8	10
* Parliament Lights KFHP	9	0.7	9
Parliament Lights KFSP	9	0.7	10
Parliament Lights 100's 100FSP	12	1.0	12

* Retested Brand

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PM3001014520

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Philip Morris International 100FHP	17	1.3	17
Philip Morris International Menthol 100FMHP	17	1.3	16
Players RNFHP	25	1.8	14
Players KFHP	11	0.9	12
Players Menthol KFMHP	11	0.9	12
Players 100's 100FHP	13	1.1	12
Players 100's Menthol 100FMHP	14	1.1	12
Players Lights 25's KFSP	10	0.8	11
Players Lights 25's Menthol KFMSP	10	0.8	10
Players Lights 25's 100's 100FSP	11	0.9	12
Players Lights 25's 100's Menthol 100FMSP	11	0.9	13
Pyramid KNFSP	21	1.4	14
*Pyramid Full Flavor KFSP	14	1.1	13
*Pyramid Full Flavor Menthol KFMSP	14	1.1	13
*Pyramid Full Flavor 100's 100FSP	15	1.2	15
*Pyramid Full Flavor 100's Menthol 100FMSP	14	1.2	14
Pyramid Lights KFSP	10	0.8	12
Pyramid Lights 100's 100FSP	10	0.9	11
Pyramid Lights 100's Menthol 100FMSP	10	0.8	11
Pyramid Ultra Lights 100's 100FSP	5	0.5	5
Raleigh KNFSP	24	1.5	16
Raleigh KFSP	14	0.9	14
Raleigh 100's 100FSP	15	1.0	16
Raleigh Lights KFSP	11	0.9	12
Raleigh Lights 100's 100FSP	12	0.9	14
Richland 20's KFSP	17	1.2	15
Richland 20's Menthol KFMSP	16	1.1	15
Richland 20's 100's 100FSP	17	1.3	16
Richland 20's 100's Menthol 100FMSP	16	1.2	16
Richland 20's Lights KFSP	11	0.9	12
Richland 20's Lights 100's 100FSP	12	0.9	14
Richland 25's KFSP	17	1.2	14
Richland 25's Menthol KFMSP	16	1.1	15
Richland 25's 100's 100FSP	17	1.3	16
Richland Lights 25's KFSP	11	0.9	12
Richland Lights 25's 100's 100FSP	13	1.0	14
Ritz 100 100FHP	9	0.8	10
Ritz 100 Menthol 100FMHP	11	0.8	11

* Retested Brand

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PM3001014521

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Salem KFMSP	17	1.2	17
Salem 100's 100FMSP	16	1.2	15
Salem Lights KFMSP	9	0.7	11
Salem Lights 100's 100FMHP	11	0.9	11
Salem Lights 100's 100FMSP	8	0.7	9
Salem Slim Lights 100's 100FMHP	8	0.7	9
Salem Ultra Lights KFMSP	5	0.4	7
Salem Ultra Lights 100's 100FMSP	4	0.4	7
Saratoga 120's 120FHP	15	1.2	14
Saratoga 120's Menthol 120FMHP	14	1.1	13
Satin 100FSP	11	0.9	12
Satin Menthol 100FMSP	11	0.9	12
Silva Thins Filters 100FHP	11	0.9	11
Silva Thins Menthol 100FMHP	12	1.0	11
Spring 100's Menthol 100FMSP	18	1.4	18
Spring Lemon Lights KFSP	9	0.8	12
Spring Lemon Lights Menthol KFMSP	8	0.7	10
Spring Lemon Lights 100's 100FSP	11	0.9	14
Spring Lemon Lights 100's Menthol 100FMSP	10	0.8	13
Tall 120's 120FSP	18	1.6	18
Tall 120's Menthol 120FMSP	17	1.5	16
Tareyton KFSP	14	1.0	15
Tareyton 100's 100FSP	14	1.0	17
Tareyton Lights KFSP	5	0.5	6
Tareyton Long Lights 100FSP	7	0.7	8
Triumph KFSP	3	0.3	4
Triumph Menthol KFMSP	3	0.3	4
Triumph 100s 100FSP	5	0.5	7
Triumph 100s Menthol 100FMSP	4	0.4	6
True KFSP	4	0.4	5
True KFMSP	4	0.4	5
True 100's 100FSP	6	0.6	7
True 100's 100FMSP	7	0.6	7
Vantage KFSP	8	0.6	10
Vantage Menthol KFMSP	9	0.7	12
Vantage 100s 100FSP	8	0.7	11
Vantage 100s Menthol 100FMSP	8	0.6	11
Vantage Ultra Lights KFSP	5	0.4	7
Vantage Ultra Lights 100s 100FSP	5	0.4	8
Viceroy KFSP	17	1.3	15

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PM3001014522

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Rounded Values

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Viceroy Super Long 100's 100FSP	18	1.4	15
Viceroy Lights KFSP	11	0.9	12
Viceroy Lights 100's 100FSP	13	1.0	14
Virginia Slims 100FSP	14	1.1	13
Virginia Slims Menthol 100FMSP	14	1.1	12
Virginia Slims Lights 100FHP	8	0.7	8
Virginia Slims Lights Menthol 100FMHP	8	0.6	8
Virginia Slims Lights 120's 120FHP	13	1.1	13
Virginia Slims Lights 120's Menthol 120FMHP	13	1.1	13
Virginia Slims Ultra Lights 100 100FHP	5	0.5	6
Virginia Slims Ultra Lights 100 Menthol 100FMHP	5	0.4	5
Virginia Slims Superslims 100 100FHP	6	0.5	7
Virginia Slims Superslims 100 Menthol 100FMHP	5	0.5	6
Winston KFHP	15	1.0	15
Winston KFSP	16	1.1	15
Winston 100's 100FSP	16	1.1	18
Winston Lights KFHP	9	0.6	11
Winston Lights KFSP	10	0.7	11
Winston Lights 100's 100FHP	10	0.7	12
Winston Lights 100's 100FSP	10	0.8	12
Winston Ultra Lights KFSP	5	0.5	8
Winston Ultra Lights 100's 100FSP	5	0.4	7
Craven A KFHP	14	1.2	13
Craven A Filter Standard Size RFHP	15	1.2	12
Dunhill International 100FHP	16	1.5	15
Dunhill Menthol 100FMHP	14	1.2	15
Dunhill Menthol Mild 100FMHP	10	0.9	11
Dunhill International Superior Mild 100FHP	9	0.8	9
Rothmans KFHP	17	1.3	17
Rothmans Special Mild KFHP	12	1.0	13
St. Moritz Filter 100FSP	14	1.1	15
St. Moritz Filter Menthol 100FMSP	14	1.0	15

PM3001014523

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

PM3001014524

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - American Tobacco Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
American Filter King KFSP	15.7±0.2	1.20±0.02	14.1±0.2
American Filter 100's 100FSP	15.7±0.2	1.24±0.02	15.4±0.3
American Lights KFSP	11.1±0.2	0.92±0.02	11.9±0.3
American Lights 100's 100FSP	11.5±0.2	0.99±0.02	12.3±0.2
American Lights 100's Menthol 100FMSP	11.0±0.2	1.00±0.02	11.7±0.3
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Carlton KFSP	1.0±0.1	0.14±0.00	2.1±0.1
Carlton Menthol KFMSP	0.8±0.1	0.13±0.01	1.8±0.1
Carlton 83 KFHP	0.9±0.1	0.12±0.01	1.7±0.1
Carlton 100's 100FHP	0.9±0.1	0.14±0.01	1.4±0.1
Carlton 100's Menthol 100FMHP	0.6±0.1	0.11±0.01	1.0±0.1
Carlton 100's 100FSP	2.2±0.1	0.24±0.01	3.2±0.2
Carlton 100's Menthol 100FMSP	2.6±0.1	0.28±0.01	3.8±0.2
Carlton 120's 120FSP	5.4±0.2	0.53±0.02	4.5±0.1
Carlton 120's 120FMSP	5.2±0.2	0.53±0.02	4.5±0.2
Herbert Tareyton KNFSP	24.3±0.5	1.60±0.02	17.2±0.3
Lucky Strike RNFSP	24.1±0.5	1.59±0.03	16.3±0.5
Lucky Strike KFHP	12.9±0.2	1.00±0.02	13.1±0.3
Lucky Strike KFSP	12.9±0.3	1.00±0.02	13.2±0.2
Lucky Strike Filters 100's 100FSP	12.9±0.3	1.08±0.03	12.8±0.3
Lucky Strike Lights KFSP	7.9±0.2	0.68±0.01	9.3±0.2
Lucky Strike Lights 100's 100FSP	8.5±0.2	0.75±0.01	9.6±0.2
Malibu Filters KFSP	15.8±0.2	1.21±0.03	14.1±0.3
Malibu Menthol KFMSP	15.7±0.3	1.22±0.02	14.0±0.3
Malibu 100's 100FSP	15.4±0.2	1.22±0.02	14.8±0.3
Malibu Menthol 100's 100FMSP	11.0±0.3	0.95±0.02	11.8±0.3
Malibu Lights KFSP	8.3±0.2	0.73±0.01	8.7±0.2
Malibu Lights 100's 100FSP	8.5±0.2	0.77±0.02	10.4±0.3
Malibu Ultra Lights 100's 100FSP	5.5±0.2	0.52±0.01	7.4±0.3
Misty Slims 100's Lights 100FHP	8.0±0.2	0.74±0.01	8.3±0.2
Misty Slims 100's Lights Menthol 100FMHP	7.9±0.1	0.72±0.01	8.1±0.2
Montclair Full Flavor 100's 100FSP	15.3±0.2	1.20±0.02	16.1±0.3
Montclair Lights 100's 100FSP	11.4±0.3	0.97±0.02	13.1±0.3
Montclair Lights 100's Menthol 100FMSP	11.1±0.2	0.96±0.02	12.5±0.2
Pall Mall KNFSP	24.6±0.4	1.66±0.04	16.1±0.3
Pall Mall 100's 100FSP	15.0±0.4	1.19±0.03	14.9±0.4
Pall Mall Lights 100's 100FSP	9.4±0.4	0.81±0.03	11.5±0.3
Pall Mall Red Filters KFSP	15.1±0.4	1.16±0.03	13.6±0.4
Pall Mall Red Filters 100's 100FSP	14.8±0.3	1.16±0.03	14.4±0.3
Pall Mall Red Lights KFSP	9.7±0.2	0.80±0.02	9.6±0.2

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PM3001014525

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - American Tobacco Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Pall Mall Red Lights 100's 100FSP	9.8±0.2	0.84±0.02	9.7±0.2
Silva Thins Filters 100FHP	11.2±0.3	0.94±0.02	10.6±0.4
Silva Thins Menthol 100FMHP	11.6±0.2	0.99±0.02	10.8±0.2
Tall 120's 120FSP	18.1±0.4	1.56±0.05	17.6±0.4
Tall 120's Menthol 120FMSP	16.5±0.3	1.47±0.03	15.9±0.3
Tareyton KFSP	13.8±0.2	1.01±0.02	15.1±0.3
Tareyton 100's 100FSP	13.7±0.3	1.02±0.02	16.7±0.4
Tareyton Lights KFSP	5.3±0.2	0.46±0.01	6.0±0.2
Tareyton Long Lights 100FSP	7.5±0.3	0.66±0.03	8.4±0.2

PM3001014526

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Brown & Williamson Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Belair KFMSP	10.0±0.2	0.81±0.02	10.0±0.2
Belair 100's 100FMSP	8.5±0.2	0.66±0.02	9.0±0.2
Belair Low Price KFMSP	14.7±0.2	1.20±0.02	13.7±0.3
Belair Low Price 100's 100FMSP	14.3±0.2	1.24±0.02	13.9±0.3
Belair Low Price Lights KFMSP	8.8±0.2	0.82±0.02	9.6±0.2
Belair Low Price Lights 100's 100FMSP	9.3±0.2	0.89±0.02	10.4±0.2
Capri 100FHP	9.0±0.2	0.79±0.02	5.9±0.2
Capri Menthol 100FMHP	8.9±0.2	0.74±0.01	5.8±0.1
Capri Super Slim 120's 120FHP	13.2±0.2	1.07±0.03	9.1±0.2
Capri Super Slim 120's Menthol 120FMHP	12.0±0.3	0.98±0.03	7.3±0.2
Kool RNFMSP	21.0±0.5	1.35±0.03	13.8±0.2
Kool KFMHP	15.6±0.3	1.15±0.02	15.4±0.3
Kool KFMSP	16.5±0.4	1.20±0.03	15.5±0.3
Kool Super Longs 100's 100FMSP	16.4±0.3	1.27±0.02	15.8±0.3
Kool Lights KFMSP	7.6±0.2	0.67±0.01	8.1±0.2
Kool Lights 100's 100FMSP	8.3±0.2	0.72±0.02	9.4±0.3
Kool Milds KFMHP	11.5±0.2	0.90±0.02	11.1±0.2
Kool Milds KFMSP	11.5±0.2	0.92±0.02	11.6±0.2
Kool Milds 100's 100FMSP	11.8±0.2	0.96±0.02	12.0±0.2
Kool Ultra KFMSP	2.0±0.2	0.19±0.01	2.0±0.1
Kool Ultra 100's 100FMSP	5.2±0.2	0.47±0.02	5.0±0.2
Raleigh KNFSP	24.5±0.6	1.46±0.03	16.3±0.4
Raleigh KFSP	14.3±0.2	0.94±0.02	13.8±0.2
Raleigh 100's 100FSP	14.9±0.3	1.00±0.02	15.9±0.2
Raleigh Lights KFSP	11.3±0.2	0.89±0.02	12.2±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.95±0.02	14.4±0.3
Richland 20's KFSP	16.7±0.3	1.21±0.02	14.6±0.2
Richland 20's Menthol KFMSP	15.6±0.3	1.07±0.02	15.0±0.3
Richland 20's 100's 100FSP	17.4±0.3	1.33±0.02	16.5±0.3
Richland 20's 100's Menthol 100FMSP	15.8±0.2	1.16±0.02	15.8±0.2
Richland 20's Lights KFSP	11.5±0.2	0.92±0.02	12.1±0.3
Richland 20's Lights 100's 100FSP	12.3±0.2	0.95±0.01	14.4±0.3
Richland 25's KFSP	16.7±0.3	1.22±0.03	14.4±0.3
Richland 25's Menthol KFMSP	15.8±0.3	1.09±0.03	14.9±0.3
Richland 25's 100's 100FSP	17.1±0.2	1.33±0.03	16.2±0.2
Richland Lights 25's KFSP	11.3±0.2	0.90±0.02	12.3±0.2
Richland Lights 25's 100's 100FSP	12.7±0.2	0.98±0.02	14.3±0.3
Viceroy KFSP	17.2±0.3	1.25±0.02	14.9±0.3
Viceroy Super Long 100's 100FSP	18.0±0.3	1.37±0.02	15.5±0.3
Viceroy Lights KFSP	11.1±0.2	0.89±0.02	12.2±0.2

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PM3001014527

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Brown & Williamson Brands

Brand	Tar mg/cig	Nicotine mg/cig	CO mg/cig
Viceroy Lights 100's 100FSP	12.6±0.2	0.98±0.01	14.1±0.3

PM3001014528

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Liggett Group Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Chesterfield RNFSP	18.0±0.4	1.18±0.03	11.5±0.3
Chesterfield KNFSP	22.0±0.4	1.48±0.04	13.9±0.4
Chesterfield Filter Lights KFSP	9.3±0.2	0.74±0.01	10.8±0.2
Chesterfield Filter Lights 100's 100FSP	9.4±0.2	0.78±0.02	10.2±0.2
Eve Slim Lights 100's 100FHP	11.5±0.3	0.95±0.02	9.5±0.2
Eve Slim Lights 100's Menthol 100FMHP	11.6±0.2	0.99±0.02	9.4±0.2
Eve Lights 120's 120FHP	11.6±0.3	1.00±0.03	10.4±0.2
Eve Lights 120's Menthol 120FMHP	11.3±0.3	0.98±0.03	10.0±0.4
Eve Ultra Lights 120's 120FHP	5.0±0.1	0.48±0.02	3.7±0.1
Eve Ultra Lights 120's Menthol 120FMHP	5.0±0.1	0.50±0.02	3.6±0.1
L & M KFHP	12.6±0.2	0.99±0.01	12.2±0.3
L & M KFSP	12.4±0.2	0.97±0.02	12.1±0.3
L & M Super 100 100FSP	12.4±0.3	1.01±0.02	12.4±0.4
L & M Long Lights 100FSP	7.6±0.2	0.83±0.02	6.0±0.2
L & M 30's Lights 100's 100FSP	10.9±0.2	0.84±0.01	9.5±0.2
Lark KFSP	12.6±0.2	1.01±0.02	11.7±0.3
Lark 100FSP	13.3±0.2	1.12±0.02	12.8±0.2
Lark Lights KFSP	11.7±0.2	0.94±0.02	10.3±0.2
Lark Light 100's 100FSP	12.2±0.2	1.01±0.03	11.5±0.3
Pyramid KNFSP	21.4±0.5	1.39±0.03	13.9±0.3
*Pyramid Full Flavor KFSP	13.6±0.2	1.05±0.02	13.2±0.2
*Pyramid Full Flavor Menthol KFMSP	13.7±0.2	1.07±0.02	13.2±0.2
*Pyramid Full Flavor 100's 100FSP	14.8±0.2	1.18±0.02	14.8±0.3
*Pyramid Full Flavor 100's Menthol 100FMSP	14.4±0.2	1.19±0.02	14.1±0.2
Pyramid Lights KFSP	10.0±0.2	0.81±0.02	11.9±0.3
Pyramid Lights 100's 100FSP	10.1±0.2	0.85±0.02	10.9±0.3
Pyramid Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	10.9±0.3
Pyramid Ultra Lights 100's 100FSP	5.3±0.2	0.51±0.01	5.0±0.2

* Retested Brand

Rev. 4/30/91

PM3001014529

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Lorillard Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Harley Davidson KFSP	10.3±0.2	0.81±0.02	11.4±0.1
Harley Davidson Lights KFSP	7.7±0.2	0.66±0.01	10.0±0.2
Heritage Lights KFSP	9.9±0.1	0.80±0.01	12.6±0.3
Heritage Lights 100s 100FSP	10.6±0.2	0.85±0.01	13.7±0.3
Kent Golden Lights KFHP	7.2±0.2	0.64±0.02	7.5±0.3
Kent Golden Lights KFSP	7.3±0.2	0.66±0.02	7.8±0.3
Kent Golden Lights Menthol KFMSP	7.6±0.2	0.69±0.02	7.9±0.2
Kent Golden Lights 100s 100FHP	8.0±0.3	0.74±0.02	7.9±0.4
Kent Golden Lights 100s 100FSP	8.0±0.2	0.76±0.02	7.8±0.3
Kent Golden Lights 100s Menthol 100FMSP	9.4±0.3	0.83±0.02	9.7±0.4
Kent KFHP	10.7±0.1	0.81±0.01	12.0±0.2
Kent KFSP	11.6±0.2	0.88±0.02	12.9±0.2
Kent 100s 100FSP	12.6±0.3	0.96±0.02	13.1±0.3
Kent 100s Menthol 100FMSP	11.8±0.3	0.92±0.02	12.7±0.3
Kent III KFSP	3.3±0.2	0.34±0.02	4.2±0.2
Kent III 100s 100FHP	5.1±0.1	0.49±0.01	7.0±0.2
Kent III 100s 100FSP	5.3±0.1	0.51±0.01	7.4±0.2
Max 120s 120FSP	14.7±0.2	1.16±0.02	15.5±0.4
Max 120s Menthol 120FMSP	15.2±0.3	1.20±0.02	15.8±0.4
Newport KFMHP	15.2±0.4	1.14±0.03	15.4±0.3
Newport KFMSP	16.3±0.2	1.22±0.02	16.7±0.3
Newport 100's 100FMHP	18.3±0.2	1.38±0.02	19.2±0.3
Newport 100's 100FMSP	18.0±0.3	1.37±0.03	18.7±0.3
Newport 25's KFMSP	16.4±0.3	1.20±0.02	17.1±0.3
Newport 25's 100's 100FMSP	17.6±0.3	1.35±0.03	18.3±0.3
Newport Lights KFMHP	7.5±0.2	0.66±0.02	8.7±0.3
Newport Lights KFMSP	8.0±0.2	0.70±0.02	8.9±0.3
Newport Lights 100's 100FMHP	8.1±0.2	0.75±0.02	8.1±0.3
Newport Lights 100's 100FMSP	8.2±0.2	0.76±0.02	8.1±0.3
Newport Stripes Lights 100s 100FHP	11.0±0.2	0.88±0.02	14.5±0.2
Newport Stripes Lights 100s Menthol 100FMHP	11.4±0.2	0.87±0.01	14.4±0.3
Old Gold Straights KNFSP	25.5±0.5	1.79±0.04	17.3±0.5
Old Gold Filters KFSP	16.3±0.2	1.21±0.02	16.9±0.3
Old Gold Filter 100's 100FSP	17.6±0.3	1.36±0.03	17.8±0.3
Old Gold Lights KFSP	8.4±0.2	0.75±0.02	9.3±0.3
Old Gold Lights 100s 100FSP	11.2±0.3	0.91±0.02	14.8±0.4
Satin 100FSP	10.8±0.3	0.90±0.02	12.4±0.3
Satin Menthol 100FMSP	10.7±0.3	0.91±0.02	12.3±0.3
Spring 100's Menthol 100FMSP	17.9±0.2	1.36±0.03	18.2±0.3
Spring Lemon Lights KFSP	9.3±0.2	0.77±0.01	11.6±0.2

Rev. 4/30/91

PM3001014530

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Lorillard Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Spring Lemon Lights Menthol KFMSP	8.2±0.2	0.71±0.01	10.1±0.3
Spring Lemon Lights 100's 100FSP	10.5±0.2	0.86±0.02	13.6±0.2
Spring Lemon Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	12.8±0.3
Triumph KFSP	3.3±0.2	0.34±0.01	4.1±0.2
Triumph Menthol KFMSP	3.3±0.1	0.34±0.01	4.2±0.2
Triumph 100s 100FSP	4.8±0.2	0.48±0.01	6.8±0.2
Triumph 100s Menthol 100FMSP	4.4±0.1	0.44±0.01	6.4±0.2
True KFSP	4.2±0.3	0.42±0.02	5.4±0.3
True KFMSP	4.2±0.4	0.42±0.03	5.1±0.4
True 100's 100FSP	6.3±0.3	0.60±0.02	6.6±0.3
True 100's 100FMSP	6.7±0.4	0.62±0.03	6.9±0.5

PM3001014531

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Alpine KFMHP	15.2±0.3	1.05±0.02	14.2±0.3
*Alpine KFMSP	15.7±0.3	1.08±0.02	15.5±0.4
Alpine 100's 100FMSP	14.7±0.3	1.11±0.02	13.9±0.2
Alpine Lights KFMHP	9.0±0.2	0.70±0.01	10.0±0.2
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.0±0.2
Alpine Lights 100's 100FMSP	9.4±0.2	0.78±0.02	11.2±0.3
Benson & Hedges KFHP	14.9±0.3	1.28±0.03	11.7±0.2
Benson & Hedges 100's 100FHP	15.7±0.2	1.20±0.02	15.1±0.3
Benson & Hedges 100's Menthol 100FMHP	15.9±0.1	1.21±0.01	14.7±0.2
Benson & Hedges 100's 100FSP	15.7±0.3	1.17±0.03	15.4±0.3
*Benson & Hedges 100's Menthol 100FMSP	15.8±0.2	1.15±0.02	15.6±0.3
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2	0.46±0.01	6.0±0.2
Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	4.7±0.1	0.41±0.01	5.7±0.2
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.88±0.01	11.1±0.1
Benson & Hedges Lights 100's Menthol 100FMHP	10.3±0.2	0.83±0.01	11.0±0.2
Benson & Hedges Lights 100's 100FSP	10.4±0.2	0.85±0.02	11.8±0.2
Benson & Hedges Lights 100's Menthol 100FMSP	9.9±0.2	0.82±0.02	10.8±0.2
Benson & Hedges Multifilter KFSP	10.9±0.3	0.90±0.03	9.8±0.3
Cambridge Full Flavor KFSP	16.5±0.2	1.13±0.02	14.8±0.3
Cambridge Full Flavor 100's 100FSP	16.7±0.3	1.16±0.02	16.0±0.3
Cambridge Lights KFSP	11.5±0.3	0.87±0.02	11.8±0.2
Cambridge Lights Menthol KFMSP	11.6±0.2	0.89±0.01	11.7±0.2
Cambridge Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.3±0.3
Cambridge Lights 100's Menthol 100FMSP	11.2±0.2	0.89±0.02	12.8±0.2
Cambridge Ultra Low Tar 100 100FSP	4.0±0.1	0.38±0.01	5.6±0.2
Cartier 100 10's 100FHP	8.1±0.3	0.74±0.02	7.3±0.3
Cartier 100 10's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.8±0.2
Cartier 100 20's 100FHP	8.3±0.2	0.76±0.01	7.5±0.1
Cartier 100 20's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.6±0.2
Commander RNFSP	21.8±0.5	1.45±0.03	12.4±0.5
Commander KNFSP	26.4±0.5	1.74±0.03	15.7±0.3
English Ovals KNFHP	23.1±0.5	1.87±0.05	14.7±0.5
Marlboro KFHP	15.7±0.3	1.12±0.02	13.7±0.3
Marlboro KFSP	15.8±0.2	1.13±0.01	14.2±0.2
Marlboro Menthol KFMSP	15.9±0.2	1.16±0.01	14.7±0.3
Marlboro 100's 100FHP	15.8±0.2	1.18±0.02	15.2±0.2
Marlboro 100's 100FSP	15.5±0.3	1.16±0.02	14.6±0.3
Marlboro 25's KFSP	15.8±0.2	1.14±0.02	14.1±0.3

* Retested Brand

Rev. 4/30/91

PM3001014532

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
*Marlboro Lights KFHP	10.8±0.2	0.79±0.02	11.5±0.3
Marlboro Lights Menthol KFMHP	9.3±0.2	0.78±0.01	9.4±0.2
Marlboro Lights KFSP	10.6±0.2	0.83±0.02	11.2±0.2
Marlboro Lights 100's 100FHP	10.0±0.1	0.81±0.01	11.0±0.2
Marlboro Lights 100's Menthol 100FMHP	9.3±0.2	0.82±0.02	10.0±0.2
Marlboro Lights 100's 100FSP	10.1±0.2	0.82±0.02	11.4±0.3
Marlboro Lights 25's KFSP	10.8±0.2	0.85±0.02	11.3±0.3
Marlboro Ultra Lights (red) KFHP	5.4±0.1	0.49±0.01	6.9±0.1
Marlboro Ultra Lights (silver) KFHP	5.3±0.1	0.47±0.01	6.5±0.1
Marlboro Ultra Lights (red) 100's 100FHP	5.8±0.1	0.52±0.02	7.6±0.2
Marlboro Ultra Lights (silver) 100's 100FHP	6.0±0.1	0.55±0.01	8.2±0.1
Merit De-Nic Low Tar KFSP	8.1±0.3	0.08±0.00	8.9±0.2
Merit De-Nic Low Tar Menthol KFMSP	7.7±0.1	0.08±0.00	8.4±0.2
Merit De-Nic Ultra Low Tar KFSP	3.3±0.2	< 0.05	3.5±0.1
Merit De-Nic Ultra Low Tar Menthol KFMSP	3.0±0.1	< 0.05	3.3±0.1
Merit KFHP	7.3±0.1	0.61±0.01	9.4±0.2
Merit KFSP	7.4±0.2	0.60±0.01	9.4±0.2
Merit Menthol KFMSP	7.6±0.2	0.65±0.02	9.3±0.2
Merit 100's 100FSP	9.1±0.2	0.75±0.02	10.9±0.3
Merit 100's 100FMSP	9.3±0.2	0.79±0.02	11.0±0.3
Merit Ultra Lights KFHP	4.5±0.1	0.45±0.01	5.5±0.1
Merit Ultra Lights KFSP	4.2±0.1	0.41±0.01	5.2±0.1
Merit Ultra Lights Menthol KFMSP	4.7±0.2	0.47±0.01	5.7±0.1
Merit Ultra Lights 100's 100FHP	5.8±0.2	0.57±0.02	6.6±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.1	0.52±0.01	7.1±0.2
Merit Ultra Lights 100's Menthol 100FMSP	4.6±0.1	0.46±0.01	6.1±0.2
Next De-Nic Low Tar KFSP	8.0±0.2	0.07±0.00	8.8±0.2
Next De-Nic Low Tar Menthol KFMSP	7.5±0.2	0.07±0.00	8.2±0.2
Next De-Nic Low Tar 100 100FSP	8.7±0.2	0.09±0.00	8.9±0.1
Next De-Nic Low Tar 100 Menthol 100FMSP	9.7±0.2	0.09±0.00	9.2±0.1
Next De-Nic Ultra Low Tar KFSP	3.5±0.1	< 0.05	3.9±0.1
Next De-Nic Ultra Low Tar Menthol KFMSP	3.2±0.1	< 0.05	3.4±0.1
Next De-Nic 100's Ultra Low Tar 100FSP	5.0±0.1	0.06±0.01	6.0±0.1
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	4.5±0.2	0.06±0.00	5.2±0.2
*Parliament Lights KFHP	8.8±0.2	0.71±0.02	9.4±0.2
Parliament Lights KFSP	9.1±0.2	0.75±0.02	9.8±0.3
Parliament Lights 100's 100FSP	11.5±0.2	0.98±0.02	11.6±0.2
Philip Morris International 100FHP	16.5±0.2	1.25±0.02	16.8±0.2

* Retested Brand

Rev. 4/30/91

PM3001014533

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Philip Morris Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Philip Morris International Menthol 100FMHP	16.6±0.2	1.29±0.02	15.9±0.3
Players RNFHP	24.5±0.5	1.81±0.04	14.3±0.5
Players KFHP	11.4±0.2	0.90±0.02	11.6±0.2
Players Menthol KFMHP	11.2±0.2	0.86±0.02	11.5±0.2
Players 100's 100FHP	13.4±0.3	1.06±0.02	12.1±0.3
Players 100's Menthol 100FMHP	13.6±0.2	1.07±0.02	12.0±0.2
Players Lights 25's KFSP	9.9±0.2	0.78±0.02	10.5±0.2
Players Lights 25's Menthol KFMSP	9.6±0.2	0.76±0.01	10.2±0.2
Players Lights 25's 100's 100FSP	11.0±0.2	0.87±0.02	12.4±0.3
Players Lights 25's 100's Menthol 100FMSP	10.8±0.3	0.87±0.02	12.7±0.3
Saratoga 120's 120FHP	14.7±0.3	1.16±0.02	14.1±0.2
Saratoga 120's Menthol 120FMHP	13.8±0.2	1.10±0.02	13.3±0.3
Virginia Slims 100FSP	14.3±0.2	1.09±0.01	12.7±0.2
Virginia Slims Menthol 100FMSP	14.4±0.2	1.08±0.02	12.4±0.2
Virginia Slims Lights 100FHP	8.2±0.2	0.70±0.02	8.3±0.2
Virginia Slims Lights Menthol 100FMHP	7.6±0.2	0.64±0.01	8.2±0.2
Virginia Slims Lights 120's 120FHP	13.4±0.3	1.07±0.03	12.7±0.4
Virginia Slims Lights 120's Menthol 120FMHP	13.3±0.3	1.08±0.02	12.7±0.3
Virginia Slims Ultra Lights 100 100FHP	5.1±0.2	0.45±0.04	5.5±0.2
Virginia Slims Ultra Lights 100 Menthol 100FMHP	4.8±0.2	0.44±0.01	5.4±0.2
Virginia Slims Superslims 100 100FHP	6.0±0.2	0.54±0.02	7.4±0.4
Virginia Slims Superslims 100 Menthol 100FMHP	5.3±0.3	0.49±0.02	6.2±0.4

PM3001014534

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Camel RNFSP	21.7±0.4	1.43±0.04	13.3±0.4
Camel Filters KFHP	15.6±0.3	1.04±0.02	15.2±0.4
Camel Filters KFSP	13.9±0.3	0.99±0.02	13.0±0.3
Camel Filters 100's 100FSP	16.1±0.3	1.02±0.01	17.2±0.3
Camel Lights KFHP	9.2±0.2	0.62±0.01	11.3±0.2
Camel Lights KFSP	10.7±0.2	0.77±0.02	11.3±0.2
Camel Lights 100's 100FSP	10.3±0.2	0.77±0.02	12.4±0.3
Century 25's KFSP	14.6±0.3	0.98±0.03	17.0±0.4
Century 25's 100's 100FSP	15.2±0.3	1.10±0.02	18.3±0.4
Century 25's Lights KFSP	8.2±0.3	0.66±0.02	10.2±0.3
Century 25's Lights 100's 100FSP	10.8±0.3	0.91±0.02	12.3±0.3
Century 25's Lights 100's Menthol 100FMSP	11.0±0.3	0.81±0.02	12.9±0.3
Chelsea 100FHP	10.4±0.2	0.82±0.02	9.9±0.2
Chelsea Menthol 100FMHP	9.6±0.2	0.74±0.01	9.7±0.2
Doral Full Flavor KFSP	14.6±0.2	1.09±0.03	14.9±0.3
Doral Full Flavor Menthol KFMSP	15.2±0.4	1.09±0.02	14.7±0.3
Doral Full Flavor 100's 100FSP	14.7±0.2	1.10±0.02	16.8±0.3
Doral Full Flavor 100's Menthol 100FMSP	14.9±0.2	1.09±0.02	17.1±0.4
Doral Lights KFSP	9.3±0.2	0.76±0.01	10.4±0.3
Doral Lights Menthol KFMSP	9.2±0.1	0.70±0.01	10.1±0.1
Doral Lights 100's 100FSP	10.2±0.2	0.88±0.02	10.4±0.3
Doral Lights Menthol 100's 100FMSP	8.7±0.2	0.69±0.02	11.9±0.3
Doral Ultra Lights KFSP	4.7±0.2	0.47±0.02	6.2±0.2
Doral Ultra Lights 100's 100FSP	4.7±0.2	0.47±0.01	7.1±0.2
Magna KFHP	13.8±0.3	0.92±0.02	14.4±0.4
Magna KFSP	13.3±0.3	0.93±0.02	13.7±0.2
Magna Lites KFHP	8.6±0.2	0.60±0.01	10.9±0.2
Magna Lites KFSP	10.6±0.3	0.75±0.02	12.3±0.2
More 120s 120FSP	16.2±0.3	1.23±0.02	20.6±0.5
More 120s Menthol 120FMSP	15.8±0.2	1.27±0.02	19.9±0.4
More Lights 100s 100FHP	9.1±0.2	0.75±0.02	9.5±0.2
More Lights 100s Menthol 100FMHP	8.4±0.2	0.67±0.01	9.2±0.2
More Lights 120s 120FSP	11.6±0.3	0.93±0.02	17.4±0.5
More Lights 120s Menthol 120FMSP	11.8±0.2	0.97±0.02	18.1±0.5
More White Lights 120s 120FSP	9.7±0.2	0.78±0.02	13.3±0.3
More White Lights 120s Menthol 120FMSP	9.9±0.3	0.84±0.02	13.5±0.3
Now KFHP	< 0.5	< 0.05	< 0.5
Now KFSP	0.8±0.1	0.13±0.01	2.0±0.1
Now Menthol KFMSP	0.7±0.1	0.12±0.00	1.8±0.1
Now 100s 100FHP	< 0.5	< 0.05	< 0.5

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - R.J. Reynolds Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.6±0.1
Now 100s Menthol 100FMSP	1.7±0.1	0.20±0.01	2.8±0.1
Ritz 100 100FHP	9.5±0.2	0.78±0.01	10.1±0.3
Ritz 100 Menthol 100FMHP	10.8±0.2	0.82±0.02	11.4±0.3
Salem KFMSP	16.8±0.3	1.20±0.03	16.6±0.3
Salem 100's 100FMSP	16.0±0.2	1.17±0.01	15.4±0.1
Salem Lights KFMSP	9.1±0.2	0.70±0.01	11.5±0.2
Salem Lights 100's 100FMHP	10.9±0.1	0.86±0.02	11.0±0.2
Salem Lights 100's 100FMSP	8.0±0.2	0.68±0.01	9.5±0.3
Salem Slim Lights 100's 100FMHP	8.5±0.1	0.71±0.02	8.8±0.2
Salem Ultra Lights KFMSP	4.6±0.1	0.43±0.01	6.9±0.2
Salem Ultra Lights 100's 100FMSP	4.4±0.2	0.42±0.01	6.8±0.2
Vantage KFSP	7.9±0.2	0.60±0.02	10.2±0.2
Vantage Menthol KFMSP	9.3±0.2	0.68±0.01	11.7±0.3
Vantage 100s 100FSP	8.5±0.2	0.65±0.01	10.8±0.2
Vantage 100s Menthol 100FMSP	8.2±0.2	0.62±0.01	11.4±0.3
Vantage Ultra Lights KFSP	4.9±0.1	0.43±0.01	7.3±0.2
Vantage Ultra Lights 100s 100FSP	4.6±0.1	0.43±0.01	7.6±0.2
Winston KFHP	15.5±0.2	1.03±0.02	15.0±0.3
Winston KFSP	15.6±0.2	1.11±0.02	15.1±0.3
Winston 100's 100FSP	16.3±0.2	1.06±0.02	17.5±0.3
Winston Lights KFHP	9.1±0.2	0.61±0.02	11.0±0.3
Winston Lights KFSP	9.5±0.2	0.69±0.01	10.9±0.2
Winston Lights 100's 100FHP	9.9±0.2	0.74±0.01	12.1±0.1
Winston Lights 100's 100FSP	10.0±0.2	0.75±0.01	11.5±0.2
Winston Ultra Lights KFSP	5.1±0.1	0.45±0.01	8.0±0.1
Winston Ultra Lights 100's 100FSP	4.5±0.1	0.42±0.01	7.4±0.2

PM3001014536

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Test Results - Larus & Brother Brands

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Craven A KFHP	14.1±0.3	1.19±0.02	13.0±0.4
Craven A Filter Standard Size RFHP	15.2±0.3	1.20±0.03	12.5±0.2
Dunhill International 100FHP	15.9±0.3	1.52±0.03	15.4±0.4
Dunhill Menthol 100FMHP	13.7±0.3	1.21±0.02	15.1±0.3
Dunhill Menthol Mild 100FMHP	9.8±0.2	0.92±0.02	11.1±0.2
Dunhill International Superior Mild 100FHP	8.6±0.3	0.81±0.03	9.3±0.3
Rothmans KFHP	17.1±0.3	1.34±0.03	16.5±0.3
Rothmans Special Mild KFHP	12.4±0.3	1.05±0.03	12.9±0.4
St. Moritz Filter 100FSP	14.4±0.2	1.08±0.02	14.9±0.3
St. Moritz Filter Menthol 100FMSP	13.9±0.3	1.04±0.03	15.0±0.3

PM3001014537

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

PM3001014538

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Carlton Ultra KFHP	< 0.5	< 0.05	< 0.5
Now KFHP	< 0.5	< 0.05	< 0.5
Now 100s 100FHP	< 0.5	< 0.05	< 0.5
Carlton 100's Menthol 100FMHP	0.6±0.1	0.11±0.01	1.0±0.1
Now Menthol KFMSP	0.7±0.1	0.12±0.00	1.8±0.1
Now KFSP	0.8±0.1	0.13±0.01	2.0±0.1
Carlton Menthol KFMSP	0.8±0.1	0.13±0.01	1.8±0.1
Carlton 83 KFHP	0.9±0.1	0.12±0.01	1.7±0.1
Carlton 100's 100FHP	0.9±0.1	0.14±0.01	1.4±0.1
Carlton KFSP	1.0±0.1	0.14±0.00	2.1±0.1
Now 100s 100FSP	1.6±0.1	0.20±0.01	2.6±0.1
Now 100s Menthol 100FMSP	1.7±0.1	0.20±0.01	2.8±0.1
Kool Ultra KFMSP	2.0±0.2	0.19±0.01	2.0±0.1
Carlton 100's 100FSP	2.2±0.1	0.24±0.01	3.2±0.2
Carlton 100's Menthol 100FMSP	2.6±0.1	0.28±0.01	3.8±0.2
Merit De-Nic Ultra Low Tar Menthol KFMSP	3.0±0.1	< 0.05	3.3±0.1
Next De-Nic Ultra Low Tar Menthol KFMSP	3.2±0.1	< 0.05	3.4±0.1
Triumph KFSP	3.3±0.2	0.34±0.01	4.1±0.2
Merit De-Nic Ultra Low Tar KFSP	3.3±0.2	< 0.05	3.5±0.1
Kent III KFSP	3.3±0.2	0.34±0.02	4.2±0.2
Triumph Menthol KFMSP	3.3±0.1	0.34±0.01	4.2±0.2
Next De-Nic Ultra Low Tar KFSP	3.5±0.1	< 0.05	3.9±0.1
Cambridge Ultra Low Tar 100 100FSP	4.0±0.1	0.38±0.01	5.6±0.2
Merit Ultra Lights KFSP	4.2±0.1	0.41±0.01	5.2±0.1
True KFSP	4.2±0.3	0.42±0.02	5.4±0.3
True KFMSP	4.2±0.4	0.42±0.03	5.1±0.4
Salem Ultra Lights 100's 100FMSP	4.4±0.2	0.42±0.01	6.8±0.2
Triumph 100s Menthol 100FMSP	4.4±0.1	0.44±0.01	6.4±0.2
Merit Ultra Lights KFHP	4.5±0.1	0.45±0.01	5.5±0.1
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	4.5±0.2	0.06±0.00	5.2±0.2
Winston Ultra Lights 100's 100FSP	4.5±0.1	0.42±0.01	7.4±0.2
Salem Ultra Lights KFMSP	4.6±0.1	0.43±0.01	6.9±0.2
Merit Ultra Lights 100's Menthol 100FMSP	4.6±0.1	0.46±0.01	6.1±0.2
Vantage Ultra Lights 100s 100FSP	4.6±0.1	0.43±0.01	7.6±0.2
Doral Ultra Lights 100's 100FSP	4.7±0.2	0.47±0.01	7.1±0.2
Merit Ultra Lights Menthol KFMSP	4.7±0.2	0.47±0.01	5.7±0.1
*Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	4.7±0.1	0.41±0.01	5.7±0.2
Doral Ultra Lights KFSP	4.7±0.2	0.47±0.02	6.2±0.2

* Retested Brand

Rev. 4/30/91

PM3001014539

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Triumph 100s 100FSP	4.8±0.2	0.48±0.01	6.8±0.2
Virginia Slims Ultra Lights 100 Menthol 100FMHP	4.8±0.2	0.44±0.01	5.4±0.2
Vantage Ultra Lights KFSP	4.9±0.1	0.43±0.01	7.3±0.2
Next De-Nic 100's Ultra Low Tar 100FSP	5.0±0.1	0.06±0.01	6.0±0.1
Eve Ultra Lights 120's 120FHP	5.0±0.1	0.48±0.02	3.7±0.1
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	5.0±0.2	0.46±0.01	6.0±0.2
Eve Ultra Lights 120's Menthol 120FMHP	5.0±0.1	0.50±0.02	3.6±0.1
Virginia Slims Ultra Lights 100 100FHP	5.1±0.2	0.45±0.04	5.5±0.2
Kent III 100s 100FHP	5.1±0.1	0.49±0.01	7.0±0.2
Winston Ultra Lights KFSP	5.1±0.1	0.45±0.01	8.0±0.1
Kool Ultra 100's 100FMSP	5.2±0.2	0.47±0.02	5.0±0.2
Carlton 120's 120FMSP	5.2±0.2	0.53±0.02	4.5±0.2
Tareyton Lights KFSP	5.3±0.2	0.46±0.01	6.0±0.2
Pyramid Ultra Lights 100's 100FSP	5.3±0.2	0.51±0.01	5.0±0.2
Merit Ultra Lights 100's 100FSP	5.3±0.1	0.52±0.01	7.1±0.2
Marlboro Ultra Lights (silver) KFHP	5.3±0.1	0.47±0.01	6.5±0.1
Kent III 100s 100FSP	5.3±0.1	0.51±0.01	7.4±0.2
Virginia Slims Superslims 100 Menthol 100FMHP	5.3±0.3	0.49±0.02	6.2±0.4
Carlton 120's 120FSP	5.4±0.2	0.53±0.02	4.5±0.1
Marlboro Ultra Lights (red) KFHP	5.4±0.1	0.49±0.01	6.9±0.1
Malibu Ultra Lights 100's 100FSP	5.5±0.2	0.52±0.01	7.4±0.3
Merit Ultra Lights 100's 100FHP	5.8±0.2	0.57±0.02	6.6±0.2
Marlboro Ultra Lights (red) 100's 100FHP	5.8±0.1	0.52±0.02	7.6±0.2
Virginia Slims Superslims 100 100FHP	6.0±0.2	0.54±0.02	7.4±0.4
Marlboro Ultra Lights (silver) 100's 100FHP	6.0±0.1	0.55±0.01	8.2±0.1
True 100's 100FSP	6.3±0.3	0.60±0.02	6.6±0.3
True 100's 100FMSP	6.7±0.4	0.62±0.03	6.9±0.5
Kent Golden Lights KFHP	7.2±0.2	0.64±0.02	7.5±0.3
Merit KFHP	7.3±0.1	0.61±0.01	9.4±0.2
Kent Golden Lights KFSP	7.3±0.2	0.66±0.02	7.8±0.3
Merit KFSP	7.4±0.2	0.60±0.01	9.4±0.2
Tareyton Long Lights 100FSP	7.5±0.3	0.66±0.03	8.4±0.2
Next De-Nic Low Tar Menthol KFMSP	7.5±0.2	0.07±0.00	8.2±0.2
Newport Lights KFMHP	7.5±0.2	0.66±0.02	8.7±0.3
Kool Lights KFMSP	7.6±0.2	0.67±0.01	8.1±0.2
Merit Menthol KFMSP	7.6±0.2	0.65±0.02	9.3±0.2
L & M Long Lights 100FSP	7.6±0.2	0.83±0.02	6.0±0.2
Kent Golden Lights Menthol KFMSP	7.6±0.2	0.69±0.02	7.9±0.2
Virginia Slims Lights Menthol 100FMHP	7.6±0.2	0.64±0.01	8.2±0.2
Merit De-Nic Low Tar Menthol KFMSP	7.7±0.1	0.08±0.00	8.4±0.2

Rev. 4/30/91

PM3001014540

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Harley Davidson Lights KFSP	7.7±0.2	0.66±0.01	10.0±0.2
Misty Slims 100's Lights Menthol 100FMHP	7.9±0.1	0.72±0.01	8.1±0.2
Vantage KFSP	7.9±0.2	0.60±0.02	10.2±0.2
Lucky Strike Lights KFSP	7.9±0.2	0.68±0.01	9.3±0.2
Next De-Nic Low Tar KFSP	8.0±0.2	0.07±0.00	8.8±0.2
Misty Slims 100's Lights 100FHP	8.0±0.2	0.74±0.01	8.3±0.2
Newport Lights KFMSP	8.0±0.2	0.70±0.02	8.9±0.3
Salem Lights 100's 100FMSP	8.0±0.2	0.68±0.01	9.5±0.3
Kent Golden Lights 100s 100FHP	8.0±0.3	0.74±0.02	7.9±0.4
Kent Golden Lights 100s 100FSP	8.0±0.2	0.76±0.02	7.8±0.3
Cartier 100 10's 100FHP	8.1±0.3	0.74±0.02	7.3±0.3
Newport Lights 100's 100FMHP	8.1±0.2	0.75±0.02	8.1±0.3
Merit De-Nic Low Tar KFSP	8.1±0.3	0.08±0.00	8.9±0.2
Vantage 100s Menthol 100FMSP	8.2±0.2	0.62±0.01	11.4±0.3
Virginia Slims Lights 100FHP	8.2±0.2	0.70±0.02	8.3±0.2
Newport Lights 100's 100FMSP	8.2±0.2	0.76±0.02	8.1±0.3
Spring Lemon Lights Menthol KFMSP	8.2±0.2	0.71±0.01	10.1±0.3
Century 25's Lights KFSP	8.2±0.3	0.66±0.02	10.2±0.3
Kool Lights 100's 100FMSP	8.3±0.2	0.72±0.02	9.4±0.3
Malibu Lights KFSP	8.3±0.2	0.73±0.01	8.7±0.2
Cartier 100 20's 100FHP	8.3±0.2	0.76±0.01	7.5±0.1
Cartier 100 20's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.6±0.2
Old Gold Lights KFSP	8.4±0.2	0.75±0.02	9.3±0.3
More Lights 100s Menthol 100FMHP	8.4±0.2	0.67±0.01	9.2±0.2
Cartier 100 10's Menthol 100FMHP	8.4±0.2	0.78±0.02	7.8±0.2
Vantage 100s 100FSP	8.5±0.2	0.65±0.01	10.8±0.2
Belair 100's 100FMSP	8.5±0.2	0.66±0.02	9.0±0.2
Salem Slim Lights 100's 100FMHP	8.5±0.1	0.71±0.02	8.8±0.2
Malibu Lights 100's 100FSP	8.5±0.2	0.77±0.02	10.4±0.3
Lucky Strike Lights 100's 100FSP	8.5±0.2	0.75±0.01	9.6±0.2
Magna Lites KFHP	8.6±0.2	0.60±0.01	10.9±0.2
Dunhill International Superior Mild 100FHP	8.6±0.3	0.81±0.03	9.3±0.3
Doral Lights Menthol 100's 100FMSP	8.7±0.2	0.69±0.02	11.9±0.3
Next De-Nic Low Tar 100 100FSP	8.7±0.2	0.09±0.00	8.9±0.1
Belair Low Price Lights KFMSP	8.8±0.2	0.82±0.02	9.6±0.2
*Parliament Lights KFHP	8.8±0.2	0.71±0.02	9.4±0.2
Capri Menthol 100FMHP	8.9±0.2	0.74±0.01	5.8±0.1
Alpine Lights KFMHP	9.0±0.2	0.70±0.01	10.0±0.2

* Retested Brand

Rev. 4/30/91

PM3001014541

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Capri 100FHP	9.0±0.2	0.79±0.02	5.9±0.2
Salem Lights KFMSP	9.1±0.2	0.70±0.01	11.5±0.2
Parliament Lights KFSP	9.1±0.2	0.75±0.02	9.8±0.3
More Lights 100s 100FHP	9.1±0.2	0.75±0.02	9.5±0.2
Merit 100's 100FSP	9.1±0.2	0.75±0.02	10.9±0.3
Winston Lights KFHP	9.1±0.2	0.61±0.02	11.0±0.3
Doral Lights Menthol KFMSP	9.2±0.1	0.70±0.01	10.1±0.1
Camel Lights KFHP	9.2±0.2	0.62±0.01	11.3±0.2
Merit 100's 100FMSP	9.3±0.2	0.79±0.02	11.0±0.3
Chesterfield Filter Lights KFSP	9.3±0.2	0.74±0.01	10.8±0.2
Marlboro Lights Menthol KFMHP	9.3±0.2	0.78±0.01	9.4±0.2
Alpine Lights KFMSP	9.3±0.2	0.74±0.02	10.0±0.2
Belair Low Price Lights 100's 100FMSP	9.3±0.2	0.89±0.02	10.4±0.2
Spring Lemon Lights KFSP	9.3±0.2	0.77±0.01	11.6±0.2
Doral Lights KFSP	9.3±0.2	0.76±0.01	10.4±0.3
Vantage Menthol KFMSP	9.3±0.2	0.68±0.01	11.7±0.3
Marlboro Lights 100's Menthol 100FMHP	9.3±0.2	0.82±0.02	10.0±0.2
Kent Golden Lights 100s Menthol 100FMSP	9.4±0.3	0.83±0.02	9.7±0.4
Alpine Lights 100's 100FMSP	9.4±0.2	0.78±0.02	11.2±0.3
Chesterfield Filter Lights 100's 100FSP	9.4±0.2	0.78±0.02	10.2±0.2
Pall Mall Lights 100's 100FSP	9.4±0.4	0.81±0.03	11.5±0.3
Ritz 100 100FHP	9.5±0.2	0.78±0.01	10.1±0.3
Winston Lights KFSP	9.5±0.2	0.69±0.01	10.9±0.2
Players Lights 25's Menthol KFMSP	9.6±0.2	0.76±0.01	10.2±0.2
Chelsea Menthol 100FMHP	9.6±0.2	0.74±0.01	9.7±0.2
Pall Mall Red Lights KFSP	9.7±0.2	0.80±0.02	9.6±0.2
Next De-Nic Low Tar 100 Menthol 100FMSP	9.7±0.2	0.09±0.00	9.2±0.1
More White Lights 120s 120FSP	9.7±0.2	0.78±0.02	13.3±0.3
Pall Mall Red Lights 100's 100FSP	9.8±0.2	0.84±0.02	9.7±0.2
Dunhill Menthol Mild 100FMHP	9.8±0.2	0.92±0.02	11.1±0.2
Benson & Hedges Lights 100's Menthol 100FMSP	9.9±0.2	0.82±0.02	10.8±0.2
Spring Lemon Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	12.8±0.3
More White Lights 120s Menthol 120FMSP	9.9±0.3	0.84±0.02	13.5±0.3
Heritage Lights KFSP	9.9±0.1	0.80±0.01	12.6±0.3
Pyramid Lights 100's Menthol 100FMSP	9.9±0.2	0.83±0.02	10.9±0.3
Winston Lights 100's 100FHP	9.9±0.2	0.74±0.01	12.1±0.1
Players Lights 25's KFSP	9.9±0.2	0.78±0.02	10.5±0.2
Marlboro Lights 100's 100FHP	10.0±0.1	0.81±0.01	11.0±0.2
Belair KFMSP	10.0±0.2	0.81±0.02	10.0±0.2
Pyramid Lights KFSP	10.0±0.2	0.81±0.02	11.9±0.3

Rev. 4/30/91

PM3001014542

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Winston Lights 100's 100FSP	10.0±0.2	0.75±0.01	11.5±0.2
Pyramid Lights 100's 100FSP	10.1±0.2	0.85±0.02	10.9±0.3
Marlboro Lights 100's 100FSP	10.1±0.2	0.82±0.02	11.4±0.3
Doral Lights 100's 100FSP	10.2±0.2	0.88±0.02	10.4±0.3
Camel Lights 100's 100FSP	10.3±0.2	0.77±0.02	12.4±0.3
Harley Davidson KFSP	10.3±0.2	0.81±0.02	11.4±0.1
Benson & Hedges Lights 100's Menthol 100FMHP	10.3±0.2	0.83±0.01	11.0±0.2
Chelsea 100FHP	10.4±0.2	0.82±0.02	9.9±0.2
Benson & Hedges Lights 100's 100FSP	10.4±0.2	0.85±0.02	11.8±0.2
Spring Lemon Lights 100's 100FSP	10.5±0.2	0.86±0.02	13.6±0.2
Marlboro Lights KFSP	10.6±0.2	0.83±0.02	11.2±0.2
Magna Lites KFSP	10.6±0.3	0.75±0.02	12.3±0.2
Heritage Lights 100s 100FSP	10.6±0.2	0.85±0.01	13.7±0.3
Kent KFHP	10.7±0.1	0.81±0.01	12.0±0.2
Camel Lights KFSP	10.7±0.2	0.77±0.02	11.3±0.2
Satin Menthol 100FMSP	10.7±0.3	0.91±0.02	12.3±0.3
Benson & Hedges Lights 100's 100FHP	10.8±0.2	0.88±0.01	11.1±0.1
Players Lights 25's 100's Menthol 100FMSP	10.8±0.3	0.87±0.02	12.7±0.3
Century 25's Lights 100's 100FSP	10.8±0.3	0.91±0.02	12.3±0.3
Marlboro Lights 25's KFSP	10.8±0.2	0.85±0.02	11.3±0.3
*Marlboro Lights KFHP	10.8±0.2	0.79±0.02	11.5±0.3
Satin 100FSP	10.8±0.3	0.90±0.02	12.4±0.3
Ritz 100 Menthol 100FMHP	10.8±0.2	0.82±0.02	11.4±0.3
Salem Lights 100's 100FMHP	10.9±0.1	0.86±0.02	11.0±0.2
Benson & Hedges Multifilter KFSP	10.9±0.3	0.90±0.03	9.8±0.3
L & M 30's Lights 100's 100FSP	10.9±0.2	0.84±0.01	9.5±0.2
Malibu Menthol 100's 100FMSP	11.0±0.3	0.95±0.02	11.8±0.3
American Lights 100's Menthol 100FMSP	11.0±0.2	1.00±0.02	11.7±0.3
Newport Stripes Lights 100s 100FHP	11.0±0.2	0.88±0.02	14.5±0.2
Players Lights 25's 100's 100FSP	11.0±0.2	0.87±0.02	12.4±0.3
Century 25's Lights 100's Menthol 100FMSP	11.0±0.3	0.81±0.02	12.9±0.3
Montclair Lights 100's Menthol 100FMSP	11.1±0.2	0.96±0.02	12.5±0.2
Viceroy Lights KFSP	11.1±0.2	0.89±0.02	12.2±0.2
American Lights KFSP	11.1±0.2	0.92±0.02	11.9±0.3
Silva Thins Filters 100FHP	11.2±0.3	0.94±0.02	10.6±0.4
Old Gold Lights 100s 100FSP	11.2±0.3	0.91±0.02	14.8±0.4
Cambridge Lights 100's Menthol 100FMSP	11.2±0.2	0.89±0.02	12.8±0.2
Players Menthol KFMHP	11.2±0.2	0.86±0.02	11.5±0.2

* Retested Brand

Rev. 4/30/91

PM3001014543

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Richland Lights 25's KFSP	11.3±0.2	0.90±0.02	12.3±0.2
Raleigh Lights KFSP	11.3±0.2	0.89±0.02	12.2±0.3
Eve Lights 120's Menthol 120FMHP	11.3±0.3	0.98±0.03	10.0±0.4
Players KFHP	11.4±0.2	0.90±0.02	11.6±0.2
Newport Stripes Lights 100s Menthol 100FMHP	11.4±0.2	0.87±0.01	14.4±0.3
Montclair Lights 100's 100FSP	11.4±0.3	0.97±0.02	13.1±0.3
American Lights 100's 100FSP	11.5±0.2	0.99±0.02	12.3±0.2
Richland 20's Lights KFSP	11.5±0.2	0.92±0.02	12.1±0.3
Eve Slim Lights 100's 100FHP	11.5±0.3	0.95±0.02	9.5±0.2
Parliament Lights 100's 100FSP	11.5±0.2	0.98±0.02	11.6±0.2
Cambridge Lights 100's 100FSP	11.5±0.2	0.89±0.02	13.3±0.3
Kool Milds KFMSP	11.5±0.2	0.92±0.02	11.6±0.2
Cambridge Lights KFSP	11.5±0.3	0.87±0.02	11.8±0.2
Kool Milds KFMHP	11.5±0.2	0.90±0.02	11.1±0.2
More Lights 120s 120FSP	11.6±0.3	0.93±0.02	17.4±0.5
Eve Lights 120's 120FHP	11.6±0.3	1.00±0.03	10.4±0.2
Kent KFSP	11.6±0.2	0.88±0.02	12.9±0.2
Silva Thins Menthol 100FMHP	11.6±0.2	0.99±0.02	10.8±0.2
Cambridge Lights Menthol KFMSP	11.6±0.2	0.89±0.01	11.7±0.2
Eve Slim Lights 100's Menthol 100FMHP	11.6±0.2	0.99±0.02	9.4±0.2
Lark Lights KFSP	11.7±0.2	0.94±0.02	10.3±0.2
Kool Milds 100's 100FMSP	11.8±0.2	0.96±0.02	12.0±0.2
Kent 100s Menthol 100FMSP	11.8±0.3	0.92±0.02	12.7±0.3
More Lights 120s Menthol 120FMSP	11.8±0.2	0.97±0.02	18.1±0.5
Capri Super Slim 120's Menthol 120FMHP	12.0±0.3	0.98±0.03	7.3±0.2
Lark Light 100's 100FSP	12.2±0.2	1.01±0.03	11.5±0.3
Richland 20's Lights 100's 100FSP	12.3±0.2	0.95±0.01	14.4±0.3
Raleigh Lights 100's 100FSP	12.3±0.2	0.95±0.02	14.4±0.3
Rothmans Special Mild KFHP	12.4±0.3	1.05±0.03	12.9±0.4
L & M Super 100 100FSP	12.4±0.3	1.01±0.02	12.4±0.4
L & M KFSP	12.4±0.2	0.97±0.02	12.1±0.3
L & M KFHP	12.6±0.2	0.99±0.01	12.2±0.3
Lark KFSP	12.6±0.2	1.01±0.02	11.7±0.3
Kent 100s 100FSP	12.6±0.3	0.96±0.02	13.1±0.3
Viceroy Lights 100's 100FSP	12.6±0.2	0.98±0.01	14.1±0.3
Richland Lights 25's 100's 100FSP	12.7±0.2	0.98±0.02	14.3±0.3
Lucky Strike KFHP	12.9±0.2	1.00±0.02	13.1±0.3
Lucky Strike KFSP	12.9±0.3	1.00±0.02	13.2±0.2
Lucky Strike Filters 100's 100FSP	12.9±0.3	1.08±0.03	12.8±0.3
Capri Super Slim 120's 120FHP	13.2±0.2	1.07±0.03	9.1±0.2

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Lark 100FSP	13.3±0.2	1.12±0.02	12.8±0.2
Virginia Slims Lights 120's Menthol 120FMHP	13.3±0.3	1.08±0.02	12.7±0.3
Magna KFSP	13.3±0.3	0.93±0.02	13.7±0.2
Players 100's 100FHP	13.4±0.3	1.06±0.02	12.1±0.3
Virginia Slims Lights 120's 120FHP	13.4±0.3	1.07±0.03	12.7±0.4
Players 100's Menthol 100FMHP	13.6±0.2	1.07±0.02	12.0±0.2
*Pyramid Full Flavor KFSP	13.6±0.2	1.05±0.02	13.2±0.2
Tareyton 100's 100FSP	13.7±0.3	1.02±0.02	16.7±0.4
Dunhill Menthol 100FMHP	13.7±0.3	1.21±0.02	15.1±0.3
*Pyramid Full Flavor Menthol KFMSP	13.7±0.2	1.07±0.02	13.2±0.2
Saratoga 120's Menthol 120FMHP	13.8±0.2	1.10±0.02	13.3±0.3
Magna KFHP	13.8±0.3	0.92±0.02	14.4±0.4
Tareyton KFSP	13.8±0.2	1.01±0.02	15.1±0.3
St. Moritz Filter Menthol 100FMSP	13.9±0.3	1.04±0.03	15.0±0.3
Camel Filters KFSP	13.9±0.3	0.99±0.02	13.0±0.3
Craven A KFHP	14.1±0.3	1.19±0.02	13.0±0.4
Virginia Slims 100FSP	14.3±0.2	1.09±0.01	12.7±0.2
Raleigh KFSP	14.3±0.2	0.94±0.02	13.8±0.2
Belair Low Price 100's 100FMSP	14.3±0.2	1.24±0.02	13.9±0.3
Virginia Slims Menthol 100FMSP	14.4±0.2	1.08±0.02	12.4±0.2
St. Moritz Filter 100FSP	14.4±0.2	1.08±0.02	14.9±0.3
*Pyramid Full Flavor 100's Menthol 100FMSP	14.4±0.2	1.19±0.02	14.1±0.2
Doral Full Flavor KFSP	14.6±0.2	1.09±0.03	14.9±0.3
Century 25's KFSP	14.6±0.3	0.98±0.03	17.0±0.4
Doral Full Flavor 100's 100FSP	14.7±0.2	1.10±0.02	16.8±0.3
Belair Low Price KFMSP	14.7±0.2	1.20±0.02	13.7±0.3
Max 120s 120FSP	14.7±0.2	1.16±0.02	15.5±0.4
Saratoga 120's 120FHP	14.7±0.3	1.16±0.02	14.1±0.2
Alpine 100's 100FMSP	14.7±0.3	1.11±0.02	13.9±0.2
*Pyramid Full Flavor 100's 100FSP	14.8±0.2	1.18±0.02	14.8±0.3
Pall Mall Red Filters 100's 100FSP	14.8±0.3	1.16±0.03	14.4±0.3
Benson & Hedges KFHP	14.9±0.3	1.28±0.03	11.7±0.2
Doral Full Flavor 100's Menthol 100FMSP	14.9±0.2	1.09±0.02	17.1±0.4
Raleigh 100's 100FSP	14.9±0.3	1.00±0.02	15.9±0.2
Pall Mall 100's 100FSP	15.0±0.4	1.19±0.03	14.9±0.4
Pall Mall Red Filters KFSP	15.1±0.4	1.16±0.03	13.6±0.4
Alpine KFMHP	15.2±0.3	1.05±0.02	14.2±0.3
Doral Full Flavor Menthol KFMSP	15.2±0.4	1.09±0.02	14.7±0.3

* Retested Brand

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Tar" Results

Brand	"Tar" mg/cig	"Nicotine" mg/cig	CO mg/cig
Craven A Filter Standard Size RFHP	15.2±0.3	1.20±0.03	12.5±0.2
Max 120s Menthol 120FMSP	15.2±0.3	1.20±0.02	15.8±0.4
Newport KFMHP	15.2±0.4	1.14±0.03	15.4±0.3
Century 25's 100's 100FSP	15.2±0.3	1.10±0.02	18.3±0.4
Montclair Full Flavor 100's 100FSP	15.3±0.2	1.20±0.02	16.1±0.3
Malibu 100's 100FSP	15.4±0.2	1.22±0.02	14.8±0.3
Winston KFHP	15.5±0.2	1.03±0.02	15.0±0.3
Marlboro 100's 100FSP	15.5±0.3	1.16±0.02	14.6±0.3
Camel Filters KFHP	15.6±0.3	1.04±0.02	15.2±0.4
Richland 20's Menthol KFMSP	15.6±0.3	1.07±0.02	15.0±0.3
Kool KFMHP	15.6±0.3	1.15±0.02	15.4±0.3
Winston KFSP	15.6±0.2	1.11±0.02	15.1±0.3
Benson & Hedges 100's 100FSP	15.7±0.3	1.17±0.03	15.4±0.3
Benson & Hedges 100's 100FHP	15.7±0.2	1.20±0.02	15.1±0.3
American Filter King KFSP	15.7±0.2	1.20±0.02	14.1±0.2
Malibu Menthol KFMSP	15.7±0.3	1.22±0.02	14.0±0.3
*Alpine KFMSP	15.7±0.3	1.08±0.02	15.5±0.4
American Filter 100's 100FSP	15.7±0.2	1.24±0.02	15.4±0.3
Marlboro KFHP	15.7±0.3	1.12±0.02	13.7±0.3
More 120s Menthol 120FMSP	15.8±0.2	1.27±0.02	19.9±0.4
Malibu Filters KFSP	15.8±0.2	1.21±0.03	14.1±0.3
Marlboro 100's 100FHP	15.8±0.2	1.18±0.02	15.2±0.2
Marlboro KFSP	15.8±0.2	1.13±0.01	14.2±0.2
Richland 20's 100's Menthol 100FMSP	15.8±0.2	1.16±0.02	15.8±0.2
Richland 25's Menthol KFMSP	15.8±0.3	1.09±0.03	14.9±0.3
*Benson & Hedges 100's Menthol 100FMSP	15.8±0.2	1.15±0.02	15.6±0.3
Marlboro 25's KFSP	15.8±0.2	1.14±0.02	14.1±0.3
Marlboro Menthol KFMSP	15.9±0.2	1.16±0.01	14.7±0.3
Benson & Hedges 100's Menthol 100FMHP	15.9±0.1	1.21±0.01	14.7±0.2
Dunhill International 100FHP	15.9±0.3	1.52±0.03	15.4±0.4
Salem 100's 100FMSP	16.0±0.2	1.17±0.01	15.4±0.1
Camel Filters 100's 100FSP	16.1±0.3	1.02±0.01	17.2±0.3
More 120s 120FSP	16.2±0.3	1.23±0.02	20.6±0.5
Old Gold Filters KFSP	16.3±0.2	1.21±0.02	16.9±0.3
Newport KFMSP	16.3±0.2	1.22±0.02	16.7±0.3
Winston 100's 100FSP	16.3±0.2	1.06±0.02	17.5±0.3
Newport 25's KFMSP	16.4±0.3	1.20±0.02	17.1±0.3
Kool Super Longs 100's 100FMSP	16.4±0.3	1.27±0.02	15.8±0.3

* Retested Brand

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Carlton Ultra KFHP	< 0.05	< 0.5	< 0.5
Now KFHP	< 0.05	< 0.5	< 0.5
Now 100s 100FHP	< 0.05	< 0.5	< 0.5
Next De-Nic Ultra Low Tar Menthol KFMSP	< 0.05	3.2±0.1	3.4±0.1
Merit De-Nic Ultra Low Tar Menthol KFMSP	< 0.05	3.0±0.1	3.3±0.1
Next De-Nic Ultra Low Tar KFSP	< 0.05	3.5±0.1	3.9±0.1
Merit De-Nic Ultra Low Tar KFSP	< 0.05	3.3±0.2	3.5±0.1
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	0.06±0.00	4.5±0.2	5.2±0.2
Next De-Nic 100's Ultra Low Tar 100FSP	0.06±0.01	5.0±0.1	6.0±0.1
Next De-Nic Low Tar Menthol KFMSP	0.07±0.00	7.5±0.2	8.2±0.2
Next De-Nic Low Tar KFSP	0.07±0.00	8.0±0.2	8.8±0.2
Merit De-Nic Low Tar KFSP	0.08±0.00	8.1±0.3	8.9±0.2
Merit De-Nic Low Tar Menthol KFMSP	0.08±0.00	7.7±0.1	8.4±0.2
Next De-Nic Low Tar 100 100FSP	0.09±0.00	8.7±0.2	8.9±0.1
Next De-Nic Low Tar 100 Menthol 100FMSP	0.09±0.00	9.7±0.2	9.2±0.1
Carlton 100's Menthol 100FMHP	0.11±0.01	0.6±0.1	1.0±0.1
Now Menthol KFMSP	0.12±0.00	0.7±0.1	1.8±0.1
Carlton 83 KFHP	0.12±0.01	0.9±0.1	1.7±0.1
Carlton Menthol KFMSP	0.13±0.01	0.8±0.1	1.8±0.1
Now KFSP	0.13±0.01	0.8±0.1	2.0±0.1
Carlton 100's 100FHP	0.14±0.01	0.9±0.1	1.4±0.1
Carlton KFSP	0.14±0.00	1.0±0.1	2.1±0.1
Kool Ultra KFMSP	0.19±0.01	2.0±0.2	2.0±0.1
Now 100s 100FSP	0.20±0.01	1.6±0.1	2.6±0.1
Now 100s Menthol 100FMSP	0.20±0.01	1.7±0.1	2.8±0.1
Carlton 100's 100FSP	0.24±0.01	2.2±0.1	3.2±0.2
Carlton 100's Menthol 100FMSP	0.28±0.01	2.6±0.1	3.8±0.2
Kent III KFSP	0.34±0.02	3.3±0.2	4.2±0.2
Triumph KFSP	0.34±0.01	3.3±0.2	4.1±0.2
Triumph Menthol KFMSP	0.34±0.01	3.3±0.1	4.2±0.2
Cambridge Ultra Low Tar 100 100FSP	0.38±0.01	4.0±0.1	5.6±0.2
*Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	0.41±0.01	4.7±0.1	5.7±0.2
Merit Ultra Lights KFSP	0.41±0.01	4.2±0.1	5.2±0.1
True KFSP	0.42±0.02	4.2±0.3	5.4±0.3
Salem Ultra Lights 100's 100FMSP	0.42±0.01	4.4±0.2	6.8±0.2
True KFMSP	0.42±0.03	4.2±0.4	5.1±0.4
Winston Ultra Lights 100's 100FSP	0.42±0.01	4.5±0.1	7.4±0.2
Salem Ultra Lights KFMSP	0.43±0.01	4.6±0.1	6.9±0.2

* Retested Brand

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Vantage Ultra Lights 100s 100FSP	0.43±0.01	4.6±0.1	7.6±0.2
Vantage Ultra Lights KFSP	0.43±0.01	4.9±0.1	7.3±0.2
Triumph 100s Menthol 100FMSP	0.44±0.01	4.4±0.1	6.4±0.2
Virginia Slims Ultra Lights 100 Menthol 100FMHP	0.44±0.01	4.8±0.2	5.4±0.2
Virginia Slims Ultra Lights 100 100FHP	0.45±0.04	5.1±0.2	5.5±0.2
Winston Ultra Lights KFSP	0.45±0.01	5.1±0.1	8.0±0.1
Merit Ultra Lights KFHP	0.45±0.01	4.5±0.1	5.5±0.1
Tareyton Lights KFSP	0.46±0.01	5.3±0.2	6.0±0.2
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	0.46±0.01	5.0±0.2	6.0±0.2
Merit Ultra Lights 100's Menthol 100FMSP	0.46±0.01	4.6±0.1	6.1±0.2
Doral Ultra Lights KFSP	0.47±0.02	4.7±0.2	6.2±0.2
Kool Ultra 100's 100FMSP	0.47±0.02	5.2±0.2	5.0±0.2
Doral Ultra Lights 100's 100FSP	0.47±0.01	4.7±0.2	7.1±0.2
Marlboro Ultra Lights (silver) KFHP	0.47±0.01	5.3±0.1	6.5±0.1
Merit Ultra Lights Menthol KFMSP	0.47±0.01	4.7±0.2	5.7±0.1
Triumph 100s 100FSP	0.48±0.01	4.8±0.2	6.8±0.2
Eve Ultra Lights 120's 120FHP	0.48±0.02	5.0±0.1	3.7±0.1
Marlboro Ultra Lights (red) KFHP	0.49±0.01	5.4±0.1	6.9±0.1
Kent III 100s 100FHP	0.49±0.01	5.1±0.1	7.0±0.2
Virginia Slims Superslims 100 Menthol 100FMHP	0.49±0.02	5.3±0.3	6.2±0.4
Eve Ultra Lights 120's Menthol 120FMHP	0.50±0.02	5.0±0.1	3.6±0.1
Kent III 100s 100FSP	0.51±0.01	5.3±0.1	7.4±0.2
Pyramid Ultra Lights 100's 100FSP	0.51±0.01	5.3±0.2	5.0±0.2
Merit Ultra Lights 100's 100FSP	0.52±0.01	5.3±0.1	7.1±0.2
Malibu Ultra Lights 100's 100FSP	0.52±0.01	5.5±0.2	7.4±0.3
Marlboro Ultra Lights (red) 100's 100FHP	0.52±0.02	5.8±0.1	7.6±0.2
Carlton 120's 120FSP	0.53±0.02	5.4±0.2	4.5±0.1
Carlton 120's 120FMSP	0.53±0.02	5.2±0.2	4.5±0.2
Virginia Slims Superslims 100 100FHP	0.54±0.02	6.0±0.2	7.4±0.4
Marlboro Ultra Lights (silver) 100's 100FHP	0.55±0.01	6.0±0.1	8.2±0.1
Merit Ultra Lights 100's 100FHP	0.57±0.02	5.8±0.2	6.6±0.2
Vantage KFSP	0.60±0.02	7.9±0.2	10.2±0.2
True 100's 100FSP	0.60±0.02	6.3±0.3	6.6±0.3
Magna Lites KFHP	0.60±0.01	8.6±0.2	10.9±0.2
Merit KFSP	0.60±0.01	7.4±0.2	9.4±0.2
Merit KFHP	0.61±0.01	7.3±0.1	9.4±0.2
Winston Lights KFHP	0.61±0.02	9.1±0.2	11.0±0.3
Vantage 100s Menthol 100FMSP	0.62±0.01	8.2±0.2	11.4±0.3
True 100's 100FMSP	0.62±0.03	6.7±0.4	6.9±0.5
Camel Lights KFHP	0.62±0.01	9.2±0.2	11.3±0.2

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Virginia Slims Lights Menthol 100FMHP	0.64±0.01	7.6±0.2	8.2±0.2
Kent Golden Lights KFHP	0.64±0.02	7.2±0.2	7.5±0.3
Merit Menthol KFMSP	0.65±0.02	7.6±0.2	9.3±0.2
Vantage 100s 100FSP	0.65±0.01	8.5±0.2	10.8±0.2
Harley Davidson Lights KFSP	0.66±0.01	7.7±0.2	10.0±0.2
Newport Lights KFMHP	0.66±0.02	7.5±0.2	8.7±0.3
Century 25's Lights KFSP	0.66±0.02	8.2±0.3	10.2±0.3
Belair 100's 100FMSP	0.66±0.02	8.5±0.2	9.0±0.2
Kent Golden Lights KFSP	0.66±0.02	7.3±0.2	7.8±0.3
Tareyton Long Lights 100FSP	0.66±0.03	7.5±0.3	8.4±0.2
More Lights 100s Menthol 100FMHP	0.67±0.01	8.4±0.2	9.2±0.2
Kool Lights KFMSP	0.67±0.01	7.6±0.2	8.1±0.2
Lucky Strike Lights KFSP	0.68±0.01	7.9±0.2	9.3±0.2
Vantage Menthol KFMSP	0.68±0.01	9.3±0.2	11.7±0.3
Salem Lights 100's 100FMSP	0.68±0.01	8.0±0.2	9.5±0.3
Winston Lights KFSP	0.69±0.01	9.5±0.2	10.9±0.2
Doral Lights Menthol 100's 100FMSP	0.69±0.02	8.7±0.2	11.9±0.3
Kent Golden Lights Menthol KFMSP	0.69±0.02	7.6±0.2	7.9±0.2
Salem Lights KFMSP	0.70±0.01	9.1±0.2	11.5±0.2
Doral Lights Menthol KFMSP	0.70±0.01	9.2±0.1	10.1±0.1
Virginia Slims Lights 100FHP	0.70±0.02	8.2±0.2	8.3±0.2
Newport Lights KFMSP	0.70±0.02	8.0±0.2	8.9±0.3
Alpine Lights KFMHP	0.70±0.01	9.0±0.2	10.0±0.2
Salem Slim Lights 100's 100FMHP	0.71±0.02	8.5±0.1	8.8±0.2
*Parliament Lights KFHP	0.71±0.02	8.8±0.2	9.4±0.2
Spring Lemon Lights Menthol KFMSP	0.71±0.01	8.2±0.2	10.1±0.3
Misty Slims 100's Lights Menthol 100FMHP	0.72±0.01	7.9±0.1	8.1±0.2
Kool Lights 100's 100FMSP	0.72±0.02	8.3±0.2	9.4±0.3
Malibu Lights KFSP	0.73±0.01	8.3±0.2	8.7±0.2
Winston Lights 100's 100FHP	0.74±0.01	9.9±0.2	12.1±0.1
Chelsea Menthol 100FMHP	0.74±0.01	9.6±0.2	9.7±0.2
Alpine Lights KFMSP	0.74±0.02	9.3±0.2	10.0±0.2
Kent Golden Lights 100s 100FHP	0.74±0.02	8.0±0.3	7.9±0.4
Misty Slims 100's Lights 100FHP	0.74±0.01	8.0±0.2	8.3±0.2
Capri Menthol 100FMHP	0.74±0.01	8.9±0.2	5.8±0.1
Chesterfield Filter Lights KFSP	0.74±0.01	9.3±0.2	10.8±0.2
Cartier 100 10's 100FHP	0.74±0.02	8.1±0.3	7.3±0.3
Merit 100's 100FSP	0.75±0.02	9.1±0.2	10.9±0.3

* Retested Brand

Rev. 4/30/91

PM3001014550

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Magna Lites KFSP	0.75±0.02	10.6±0.3	12.3±0.2
Parliament Lights KFSP	0.75±0.02	9.1±0.2	9.8±0.3
Newport Lights 100's 100FMHP	0.75±0.02	8.1±0.2	8.1±0.3
More Lights 100s 100FHP	0.75±0.02	9.1±0.2	9.5±0.2
Old Gold Lights KFSP	0.75±0.02	8.4±0.2	9.3±0.3
Lucky Strike Lights 100's 100FSP	0.75±0.01	8.5±0.2	9.6±0.2
Winston Lights 100's 100FSP	0.75±0.01	10.0±0.2	11.5±0.2
Kent Golden Lights 100s 100FSP	0.76±0.02	8.0±0.2	7.8±0.3
Players Lights 25's Menthol KFMSP	0.76±0.01	9.6±0.2	10.2±0.2
Cartier 100 20's 100FHP	0.76±0.01	8.3±0.2	7.5±0.1
Doral Lights KFSP	0.76±0.01	9.3±0.2	10.4±0.3
Newport Lights 100's 100FMSP	0.76±0.02	8.2±0.2	8.1±0.3
Camel Lights 100's 100FSP	0.77±0.02	10.3±0.2	12.4±0.3
Malibu Lights 100's 100FSP	0.77±0.02	8.5±0.2	10.4±0.3
Camel Lights KFSP	0.77±0.02	10.7±0.2	11.3±0.2
Spring Lemon Lights KFSP	0.77±0.01	9.3±0.2	11.6±0.2
Ritz 100 100FHP	0.78±0.01	9.5±0.2	10.1±0.3
Cartier 100 20's Menthol 100FMHP	0.78±0.02	8.4±0.2	7.6±0.2
Alpine Lights 100's 100FMSP	0.78±0.02	9.4±0.2	11.2±0.3
Players Lights 25's KFSP	0.78±0.02	9.9±0.2	10.5±0.2
More White Lights 120s 120FSP	0.78±0.02	9.7±0.2	13.3±0.3
Cartier 100 10's Menthol 100FMHP	0.78±0.02	8.4±0.2	7.8±0.2
Marlboro Lights Menthol KFMHP	0.78±0.01	9.3±0.2	9.4±0.2
Chesterfield Filter Lights 100's 100FSP	0.78±0.02	9.4±0.2	10.2±0.2
Merit 100's 100FMSP	0.79±0.02	9.3±0.2	11.0±0.3
*Marlboro Lights KFHP	0.79±0.02	10.8±0.2	11.5±0.3
Capri 100FHP	0.79±0.02	9.0±0.2	5.9±0.2
Heritage Lights KFSP	0.80±0.01	9.9±0.1	12.6±0.3
Pall Mall Red Lights KFSP	0.80±0.02	9.7±0.2	9.6±0.2
Harley Davidson KFSP	0.81±0.02	10.3±0.2	11.4±0.1
Pyramid Lights KFSP	0.81±0.02	10.0±0.2	11.9±0.3
Century 25's Lights 100's Menthol 100FMSP	0.81±0.02	11.0±0.3	12.9±0.3
Marlboro Lights 100's 100FHP	0.81±0.01	10.0±0.1	11.0±0.2
Belair KFMSP	0.81±0.02	10.0±0.2	10.0±0.2
Dunhill International Superior Mild 100FHP	0.81±0.03	8.6±0.3	9.3±0.3
Pall Mall Lights 100's 100FSP	0.81±0.03	9.4±0.4	11.5±0.3
Kent KFHP	0.81±0.01	10.7±0.1	12.0±0.2
Marlboro Lights 100's Menthol 100FMHP	0.82±0.02	9.3±0.2	10.0±0.2

* Retested Brand

Rev. 4/30/91

PM3001014551

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Marlboro Lights 100's 100FSP	0.82±0.02	10.1±0.2	11.4±0.3
Benson & Hedges Lights 100's Menthol 100FMSP	0.82±0.02	9.9±0.2	10.8±0.2
Ritz 100 Menthol 100FMHP	0.82±0.02	10.8±0.2	11.4±0.3
Chelsea 100FHP	0.82±0.02	10.4±0.2	9.9±0.2
Belair Low Price Lights KFMSP	0.82±0.02	8.8±0.2	9.6±0.2
Marlboro Lights KFSP	0.83±0.02	10.6±0.2	11.2±0.2
Benson & Hedges Lights 100's Menthol 100FMHP	0.83±0.01	10.3±0.2	11.0±0.2
Pyramid Lights 100's Menthol 100FMSP	0.83±0.02	9.9±0.2	10.9±0.3
L & M Long Lights 100FSP	0.83±0.02	7.6±0.2	6.0±0.2
Spring Lemon Lights 100's Menthol 100FMSP	0.83±0.02	9.9±0.2	12.8±0.3
Kent Golden Lights 100s Menthol 100FMSP	0.83±0.02	9.4±0.3	9.7±0.4
More White Lights 120s Menthol 120FMSP	0.84±0.02	9.9±0.3	13.5±0.3
L & M 30's Lights 100's 100FSP	0.84±0.01	10.9±0.2	9.5±0.2
Pall Mall Red Lights 100's 100FSP	0.84±0.02	9.8±0.2	9.7±0.2
Benson & Hedges Lights 100's 100FSP	0.85±0.02	10.4±0.2	11.8±0.2
Pyramid Lights 100's 100FSP	0.85±0.02	10.1±0.2	10.9±0.3
Heritage Lights 100s 100FSP	0.85±0.01	10.6±0.2	13.7±0.3
Marlboro Lights 25's KFSP	0.85±0.02	10.8±0.2	11.3±0.3
Spring Lemon Lights 100's 100FSP	0.86±0.02	10.5±0.2	13.6±0.2
Players Menthol KFMHP	0.86±0.02	11.2±0.2	11.5±0.2
Salem Lights 100's 100FMHP	0.86±0.02	10.9±0.1	11.0±0.2
Players Lights 25's 100's Menthol 100FMSP	0.87±0.02	10.8±0.3	12.7±0.3
Newport Stripes Lights 100s Menthol 100FMHP	0.87±0.01	11.4±0.2	14.4±0.3
Players Lights 25's 100's 100FSP	0.87±0.02	11.0±0.2	12.4±0.3
Cambridge Lights KFSP	0.87±0.02	11.5±0.3	11.8±0.2
Kent KFSP	0.88±0.02	11.6±0.2	12.9±0.2
Benson & Hedges Lights 100's 100FHP	0.88±0.01	10.8±0.2	11.1±0.1
Newport Stripes Lights 100s 100FHP	0.88±0.02	11.0±0.2	14.5±0.2
Doral Lights 100's 100FSP	0.88±0.02	10.2±0.2	10.4±0.3
Cambridge Lights 100's 100FSP	0.89±0.02	11.5±0.2	13.3±0.3
Belair Low Price Lights 100's 100FMSP	0.89±0.02	9.3±0.2	10.4±0.2
Viceroy Lights KFSP	0.89±0.02	11.1±0.2	12.2±0.2
Cambridge Lights Menthol KFMSP	0.89±0.01	11.6±0.2	11.7±0.2
Raleigh Lights KFSP	0.89±0.02	11.3±0.2	12.2±0.3
Cambridge Lights 100's Menthol 100FMSP	0.89±0.02	11.2±0.2	12.8±0.2
Benson & Hedges Multifilter KFSP	0.90±0.03	10.9±0.3	9.8±0.3
Players KFHP	0.90±0.02	11.4±0.2	11.6±0.2
Richland Lights 25's KFSP	0.90±0.02	11.3±0.2	12.3±0.2
Kool Milds KFMHP	0.90±0.02	11.5±0.2	11.1±0.2
Satin 100FSP	0.90±0.02	10.8±0.3	12.4±0.3

Rev. 4/30/91

PM3001014552

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Century 25's Lights 100's 100FSP	0.91±0.02	10.8±0.3	12.3±0.3
Old Gold Lights 100s 100FSP	0.91±0.02	11.2±0.3	14.8±0.4
Satin Menthol 100FMSP	0.91±0.02	10.7±0.3	12.3±0.3
Kent 100s Menthol 100FMSP	0.92±0.02	11.8±0.3	12.7±0.3
Richland 20's Lights KFSP	0.92±0.02	11.5±0.2	12.1±0.3
Kool Milds KFMSP	0.92±0.02	11.5±0.2	11.6±0.2
Magna KFHP	0.92±0.02	13.8±0.3	14.4±0.4
Dunhill Menthol Mild 100FMHP	0.92±0.02	9.8±0.2	11.1±0.2
American Lights KFSP	0.92±0.02	11.1±0.2	11.9±0.3
Magna KFSP	0.93±0.02	13.3±0.3	13.7±0.2
More Lights 120s 120FSP	0.93±0.02	11.6±0.3	17.4±0.5
Raleigh KFSP	0.94±0.02	14.3±0.2	13.8±0.2
Silva Thins Filters 100FHP	0.94±0.02	11.2±0.3	10.6±0.4
Lark Lights KFSP	0.94±0.02	11.7±0.2	10.3±0.2
Richland 20's Lights 100's 100FSP	0.95±0.01	12.3±0.2	14.4±0.3
Raleigh Lights 100's 100FSP	0.95±0.02	12.3±0.2	14.4±0.3
Malibu Menthol 100's 100FMSP	0.95±0.02	11.0±0.3	11.8±0.3
Eve Slim Lights 100's 100FHP	0.95±0.02	11.5±0.3	9.5±0.2
Kool Milds 100's 100FMSP	0.96±0.02	11.8±0.2	12.0±0.2
Kent 100s 100FSP	0.96±0.02	12.6±0.3	13.1±0.3
Montclair Lights 100's Menthol 100FMSP	0.96±0.02	11.1±0.2	12.5±0.2
Montclair Lights 100's 100FSP	0.97±0.02	11.4±0.3	13.1±0.3
More Lights 120s Menthol 120FMSP	0.97±0.02	11.8±0.2	18.1±0.5
L & M KFSP	0.97±0.02	12.4±0.2	12.1±0.3
Capri Super Slim 120's Menthol 120FMHP	0.98±0.03	12.0±0.3	7.3±0.2
Century 25's KFSP	0.98±0.03	14.6±0.3	17.0±0.4
Parliament Lights 100's 100FSP	0.98±0.02	11.5±0.2	11.6±0.2
Richland Lights 25's 100's 100FSP	0.98±0.02	12.7±0.2	14.3±0.3
Viceroy Lights 100's 100FSP	0.98±0.01	12.6±0.2	14.1±0.3
Eve Lights 120's Menthol 120FMHP	0.98±0.03	11.3±0.3	10.0±0.4
Eve Slim Lights 100's Menthol 100FMHP	0.99±0.02	11.6±0.2	9.4±0.2
American Lights 100's 100FSP	0.99±0.02	11.5±0.2	12.3±0.2
Silva Thins Menthol 100FMHP	0.99±0.02	11.6±0.2	10.8±0.2
L & M KFHP	0.99±0.01	12.6±0.2	12.2±0.3
Camel Filters KFSP	0.99±0.02	13.9±0.3	13.0±0.3
Raleigh 100's 100FSP	1.00±0.02	14.9±0.3	15.9±0.2
Lucky Strike KFSP	1.00±0.02	12.9±0.3	13.2±0.2
American Lights 100's Menthol 100FMSP	1.00±0.02	11.0±0.2	11.7±0.3
Eve Lights 120's 120FHP	1.00±0.03	11.6±0.3	10.4±0.2
Lucky Strike KFHP	1.00±0.02	12.9±0.2	13.1±0.3

Rev. 4/30/91

PM3001014553

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Lark KFSP	1.01±0.02	12.6±0.2	11.7±0.3
L & M Super 100 100FSP	1.01±0.02	12.4±0.3	12.4±0.4
Tareyton KFSP	1.01±0.02	13.8±0.2	15.1±0.3
Lark Light 100's 100FSP	1.01±0.03	12.2±0.2	11.5±0.3
Camel Filters 100's 100FSP	1.02±0.01	16.1±0.3	17.2±0.3
Tareyton 100's 100FSP	1.02±0.02	13.7±0.3	16.7±0.4
Winston KFHP	1.03±0.02	15.5±0.2	15.0±0.3
Camel Filters KFHP	1.04±0.02	15.6±0.3	15.2±0.4
St. Moritz Filter Menthol 100FMSP	1.04±0.03	13.9±0.3	15.0±0.3
Rothmans Special Mild KFHP	1.05±0.03	12.4±0.3	12.9±0.4
Alpine KFMHP	1.05±0.02	15.2±0.3	14.2±0.3
*Pyramid Full Flavor KFSP	1.05±0.02	13.6±0.2	13.2±0.2
Winston 100's 100FSP	1.06±0.02	16.3±0.2	17.5±0.3
Players 100's 100FHP	1.06±0.02	13.4±0.3	12.1±0.3
*Pyramid Full Flavor Menthol KFMSP	1.07±0.02	13.7±0.2	13.2±0.2
Richland 20's Menthol KFMSP	1.07±0.02	15.6±0.3	15.0±0.3
Capri Super Slim 120's 120FHP	1.07±0.03	13.2±0.2	9.1±0.2
Players 100's Menthol 100FMHP	1.07±0.02	13.6±0.2	12.0±0.2
Virginia Slims Lights 120's 120FHP	1.07±0.03	13.4±0.3	12.7±0.4
St. Moritz Filter 100FSP	1.08±0.02	14.4±0.2	14.9±0.3
Lucky Strike Filters 100's 100FSP	1.08±0.03	12.9±0.3	12.8±0.3
*Alpine KFMSP	1.08±0.02	15.7±0.3	15.5±0.4
Virginia Slims Lights 120's Menthol 120FMHP	1.08±0.02	13.3±0.3	12.7±0.3
Virginia Slims Menthol 100FMSP	1.08±0.02	14.4±0.2	12.4±0.2
Virginia Slims 100FSP	1.09±0.01	14.3±0.2	12.7±0.2
Richland 25's Menthol KFMSP	1.09±0.03	15.8±0.3	14.9±0.3
Doral Full Flavor Menthol KFMSP	1.09±0.02	15.2±0.4	14.7±0.3
Doral Full Flavor KFSP	1.09±0.03	14.6±0.2	14.9±0.3
Doral Full Flavor 100's Menthol 100FMSP	1.09±0.02	14.9±0.2	17.1±0.4
Saratoga 120's Menthol 120FMHP	1.10±0.02	13.8±0.2	13.3±0.3
Doral Full Flavor 100's 100FSP	1.10±0.02	14.7±0.2	16.8±0.3
Century 25's 100's 100FSP	1.10±0.02	15.2±0.3	18.3±0.4
Alpine 100's 100FMSP	1.11±0.02	14.7±0.3	13.9±0.2
Winston KFSP	1.11±0.02	15.6±0.2	15.1±0.3
Lark 100FSP	1.12±0.02	13.3±0.2	12.8±0.2
Marlboro KFHP	1.12±0.02	15.7±0.3	13.7±0.3
Cambridge Full Flavor KFSP	1.13±0.02	16.5±0.2	14.8±0.3
Marlboro KFSP	1.13±0.01	15.8±0.2	14.2±0.2

* Retested Brand

Rev. 4/30/91

PM3001014554

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
Newport KFMHP	1.14±0.03	15.2±0.4	15.4±0.3
Marlboro 25's KFSP	1.14±0.02	15.8±0.2	14.1±0.3
Kool KFMHP	1.15±0.02	15.6±0.3	15.4±0.3
*Benson & Hedges 100's Menthol 100FMSP	1.15±0.02	15.8±0.2	15.6±0.3
Marlboro 100's 100FSP	1.16±0.02	15.5±0.3	14.6±0.3
Richland 20's 100's Menthol 100FMSP	1.16±0.02	15.8±0.2	15.8±0.2
Pall Mall Red Filters KFSP	1.16±0.03	15.1±0.4	13.6±0.4
Saratoga 120's 120FHP	1.16±0.02	14.7±0.3	14.1±0.2
Max 120s 120FSP	1.16±0.02	14.7±0.2	15.5±0.4
Pall Mall Red Filters 100's 100FSP	1.16±0.03	14.8±0.3	14.4±0.3
Marlboro Menthol KFMSP	1.16±0.01	15.9±0.2	14.7±0.3
Cambridge Full Flavor 100's 100FSP	1.16±0.02	16.7±0.3	16.0±0.3
Salem 100's 100FMSP	1.17±0.01	16.0±0.2	15.4±0.1
Benson & Hedges 100's 100FSP	1.17±0.03	15.7±0.3	15.4±0.3
*Pyramid Full Flavor 100's 100FSP	1.18±0.02	14.8±0.2	14.8±0.3
Chesterfield RNFSP	1.18±0.03	18.0±0.4	11.5±0.3
Marlboro 100's 100FHP	1.18±0.02	15.8±0.2	15.2±0.2
Pall Mall 100's 100FSP	1.19±0.03	15.0±0.4	14.9±0.4
Craven A KFHP	1.19±0.02	14.1±0.3	13.0±0.4
*Pyramid Full Flavor 100's Menthol 100FMSP	1.19±0.02	14.4±0.2	14.1±0.2
Newport 25's KFMSP	1.20±0.02	16.4±0.3	17.1±0.3
Benson & Hedges 100's 100FHP	1.20±0.02	15.7±0.2	15.1±0.3
Montclair Full Flavor 100's 100FSP	1.20±0.02	15.3±0.2	16.1±0.3
Kool KFMSP	1.20±0.03	16.5±0.4	15.5±0.3
Max 120s Menthol 120FMSP	1.20±0.02	15.2±0.3	15.8±0.4
Belair Low Price KFMSP	1.20±0.02	14.7±0.2	13.7±0.3
Salem KFMSP	1.20±0.03	16.8±0.3	16.6±0.3
American Filter King KFSP	1.20±0.02	15.7±0.2	14.1±0.2
Craven A Filter Standard Size RFHP	1.20±0.03	15.2±0.3	12.5±0.2
Benson & Hedges 100's Menthol 100FMHP	1.21±0.01	15.9±0.1	14.7±0.2
Richland 20's KFSP	1.21±0.02	16.7±0.3	14.6±0.2
Old Gold Filters KFSP	1.21±0.02	16.3±0.2	16.9±0.3
Malibu Filters KFSP	1.21±0.03	15.8±0.2	14.1±0.3
Dunhill Menthol 100FMHP	1.21±0.02	13.7±0.3	15.1±0.3
Malibu Menthol KFMSP	1.22±0.02	15.7±0.3	14.0±0.3
Newport KFMSP	1.22±0.02	16.3±0.2	16.7±0.3
Malibu 100's 100FSP	1.22±0.02	15.4±0.2	14.8±0.3
Richland 25's KFSP	1.22±0.03	16.7±0.3	14.4±0.3

* Retested Brand

Rev. 4/30/91

PM3001014555

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted "Nicotine" Results

Brand	"Nicotine" mg/cig	"Tar" mg/cig	CO mg/cig
More 120s 120FSP	1.23±0.02	16.2±0.3	20.6±0.5
American Filter 100's 100FSP	1.24±0.02	15.7±0.2	15.4±0.3
Belair Low Price 100's 100FMSP	1.24±0.02	14.3±0.2	13.9±0.3
Philip Morris International 100FHP	1.25±0.02	16.5±0.2	16.8±0.2
Viceroy KFSP	1.25±0.02	17.2±0.3	14.9±0.3
More 120s Menthol 120FMSP	1.27±0.02	15.8±0.2	19.9±0.4
Kool Super Longs 100's 100FMSP	1.27±0.02	16.4±0.3	15.8±0.3
Benson & Hedges KFHP	1.28±0.03	14.9±0.3	11.7±0.2
Philip Morris International Menthol 100FMHP	1.29±0.02	16.6±0.2	15.9±0.3
Richland 20's 100's 100FSP	1.33±0.02	17.4±0.3	16.5±0.3
Richland 25's 100's 100FSP	1.33±0.03	17.1±0.2	16.2±0.2
Rothmans KFHP	1.34±0.03	17.1±0.3	16.5±0.3
Kool RNFMSP	1.35±0.03	21.0±0.5	13.8±0.2
Newport 25's 100's 100FMSP	1.35±0.03	17.6±0.3	18.3±0.3
Spring 100's Menthol 100FMSP	1.36±0.03	17.9±0.2	18.2±0.3
Old Gold Filter 100's 100FSP	1.36±0.03	17.6±0.3	17.8±0.3
Newport 100's 100FMSP	1.37±0.03	18.0±0.3	18.7±0.3
Viceroy Super Long 100's 100FSP	1.37±0.02	18.0±0.3	15.5±0.3
Newport 100's 100FMHP	1.38±0.02	18.3±0.2	19.2±0.3
Pyramid KNFSP	1.39±0.03	21.4±0.5	13.9±0.3
Camel RNFSP	1.43±0.04	21.7±0.4	13.3±0.4
Commander RNFSP	1.45±0.03	21.8±0.5	12.4±0.5
Raleigh KNFSP	1.46±0.03	24.5±0.6	16.3±0.4
Tall 120's Menthol 120FMSP	1.47±0.03	16.5±0.3	15.9±0.3
Chesterfield KNFSP	1.48±0.04	22.0±0.4	13.9±0.4
Dunhill International 100FHP	1.52±0.03	15.9±0.3	15.4±0.4
Tall 120's 120FSP	1.56±0.05	18.1±0.4	17.6±0.4
Lucky Strike RNFSP	1.59±0.03	24.1±0.5	16.3±0.5
Herbert Tareyton KNFSP	1.60±0.02	24.3±0.5	17.2±0.3
Pall Mall KNFSP	1.66±0.04	24.6±0.4	16.1±0.3
Commander KNFSP	1.74±0.03	26.4±0.5	15.7±0.3
Old Gold Straights KNFSP	1.79±0.04	25.5±0.5	17.3±0.5
Players RNFHP	1.81±0.04	24.5±0.5	14.3±0.5
English Ovals KNFHP	1.87±0.05	23.1±0.5	14.7±0.5

PM3001014556

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Carlton Ultra KFHP	< 0.5	< 0.5	< 0.05
Now KFHP	< 0.5	< 0.5	< 0.05
Now 100s 100FHP	< 0.5	< 0.5	< 0.05
Carlton 100's Menthol 100FMHP	1.0±0.1	0.6±0.1	0.11±0.01
Carlton 100's 100FHP	1.4±0.1	0.9±0.1	0.14±0.01
Carlton 83 KFHP	1.7±0.1	0.9±0.1	0.12±0.01
Carlton Menthol KFMSP	1.8±0.1	0.8±0.1	0.13±0.01
Now Menthol KFMSP	1.8±0.1	0.7±0.1	0.12±0.00
Now KFSP	2.0±0.1	0.8±0.1	0.13±0.01
Kool Ultra KFMSP	2.0±0.1	2.0±0.2	0.19±0.01
Carlton KFSP	2.1±0.1	1.0±0.1	0.14±0.00
Now 100s 100FSP	2.6±0.1	1.6±0.1	0.20±0.01
Now 100s Menthol 100FMSP	2.8±0.1	1.7±0.1	0.20±0.01
Carlton 100's 100FSP	3.2±0.2	2.2±0.1	0.24±0.01
Merit De-Nic Ultra Low Tar Menthol KFMSP	3.3±0.1	3.0±0.1	< 0.05
Next De-Nic Ultra Low Tar Menthol KFMSP	3.4±0.1	3.2±0.1	< 0.05
Merit De-Nic Ultra Low Tar KFSP	3.5±0.1	3.3±0.2	< 0.05
Eve Ultra Lights 120's Menthol 120FMHP	3.6±0.1	5.0±0.1	0.50±0.02
Eve Ultra Lights 120's 120FHP	3.7±0.1	5.0±0.1	0.48±0.02
Carlton 100's Menthol 100FMSP	3.8±0.2	2.6±0.1	0.28±0.01
Next De-Nic Ultra Low Tar KFSP	3.9±0.1	3.5±0.1	< 0.05
Triumph KFSP	4.1±0.2	3.3±0.2	0.34±0.01
Triumph Menthol KFMSP	4.2±0.2	3.3±0.1	0.34±0.01
Kent III KFSP	4.2±0.2	3.3±0.2	0.34±0.02
Carlton 120's 120FMSP	4.5±0.2	5.2±0.2	0.53±0.02
Carlton 120's 120FSP	4.5±0.1	5.4±0.2	0.53±0.02
Kool Ultra 100's 100FMSP	5.0±0.2	5.2±0.2	0.47±0.02
Pyramid Ultra Lights 100's 100FSP	5.0±0.2	5.3±0.2	0.51±0.01
True KFMSP	5.1±0.4	4.2±0.4	0.42±0.03
Merit Ultra Lights KFSP	5.2±0.1	4.2±0.1	0.41±0.01
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	5.2±0.2	4.5±0.2	0.06±0.00
True KFSP	5.4±0.3	4.2±0.3	0.42±0.02
Virginia Slims Ultra Lights 100 Menthol 100FMHP	5.4±0.2	4.8±0.2	0.44±0.01
Virginia Slims Ultra Lights 100 100FHP	5.5±0.2	5.1±0.2	0.45±0.04
Merit Ultra Lights KFHP	5.5±0.1	4.5±0.1	0.45±0.01
Cambridge Ultra Low Tar 100 100FSP	5.6±0.2	4.0±0.1	0.38±0.01
*Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	5.7±0.2	4.7±0.1	0.41±0.01
Merit Ultra Lights Menthol KFMSP	5.7±0.1	4.7±0.2	0.47±0.01

* Retested Brand

Rev. 4/30/91

PM3001014557

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Capri Menthol 100FMHP	5.8±0.1	8.9±0.2	0.74±0.01
Capri 100FHP	5.9±0.2	9.0±0.2	0.79±0.02
Tareyton Lights KFSP	6.0±0.2	5.3±0.2	0.46±0.01
Next De-Nic 100's Ultra Low Tar 100FSP	6.0±0.1	5.0±0.1	0.06±0.01
L & M Long Lights 100FSP	6.0±0.2	7.6±0.2	0.83±0.02
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	6.0±0.2	5.0±0.2	0.46±0.01
Merit Ultra Lights 100's Menthol 100FMSP	6.1±0.2	4.6±0.1	0.46±0.01
Doral Ultra Lights KFSP	6.2±0.2	4.7±0.2	0.47±0.02
Virginia Slims Superslims 100 Menthol 100FMHP	6.2±0.4	5.3±0.3	0.49±0.02
Triumph 100s Menthol 100FMSP	6.4±0.2	4.4±0.1	0.44±0.01
Marlboro Ultra Lights (silver) KFHP	6.5±0.1	5.3±0.1	0.47±0.01
True 100's 100FSP	6.6±0.3	6.3±0.3	0.60±0.02
Merit Ultra Lights 100's 100FHP	6.6±0.2	5.8±0.2	0.57±0.02
Triumph 100s 100FSP	6.8±0.2	4.8±0.2	0.48±0.01
Salem Ultra Lights 100's 100FMSP	6.8±0.2	4.4±0.2	0.42±0.01
Salem Ultra Lights KFMSP	6.9±0.2	4.6±0.1	0.43±0.01
True 100's 100FMSP	6.9±0.5	6.7±0.4	0.62±0.03
Marlboro Ultra Lights (red) KFHP	6.9±0.1	5.4±0.1	0.49±0.01
Kent III 100s 100FHP	7.0±0.2	5.1±0.1	0.49±0.01
Merit Ultra Lights 100's 100FSP	7.1±0.2	5.3±0.1	0.52±0.01
Doral Ultra Lights 100's 100FSP	7.1±0.2	4.7±0.2	0.47±0.01
Cartier 100 10's 100FHP	7.3±0.3	8.1±0.3	0.74±0.02
Vantage Ultra Lights KFSP	7.3±0.2	4.9±0.1	0.43±0.01
Capri Super Slim 120's Menthol 120FMHP	7.3±0.2	12.0±0.3	0.98±0.03
Malibu Ultra Lights 100's 100FSP	7.4±0.3	5.5±0.2	0.52±0.01
Kent III 100s 100FSP	7.4±0.2	5.3±0.1	0.51±0.01
Winston Ultra Lights 100's 100FSP	7.4±0.2	4.5±0.1	0.42±0.01
Virginia Slims Superslims 100 100FHP	7.4±0.4	6.0±0.2	0.54±0.02
Kent Golden Lights KFHP	7.5±0.3	7.2±0.2	0.64±0.02
Cartier 100 20's 100FHP	7.5±0.1	8.3±0.2	0.76±0.01
Marlboro Ultra Lights (red) 100's 100FHP	7.6±0.2	5.8±0.1	0.52±0.02
Cartier 100 20's Menthol 100FMHP	7.6±0.2	8.4±0.2	0.78±0.02
Vantage Ultra Lights 100s 100FSP	7.6±0.2	4.6±0.1	0.43±0.01
Kent Golden Lights 100s 100FSP	7.8±0.3	8.0±0.2	0.76±0.02
Cartier 100 10's Menthol 100FMHP	7.8±0.2	8.4±0.2	0.78±0.02
Kent Golden Lights KFSP	7.8±0.3	7.3±0.2	0.66±0.02
Kent Golden Lights Menthol KFMSP	7.9±0.2	7.6±0.2	0.69±0.02
Kent Golden Lights 100s 100FHP	7.9±0.4	8.0±0.3	0.74±0.02
Winston Ultra Lights KFSP	8.0±0.1	5.1±0.1	0.45±0.01
Newport Lights 100's 100FMHP	8.1±0.3	8.1±0.2	0.75±0.02

PM3001014558

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Misty Slims 100's Lights Menthol 100FMHP	8.1±0.2	7.9±0.1	0.72±0.01
Kool Lights KFMSP	8.1±0.2	7.6±0.2	0.67±0.01
Newport Lights 100's 100FMSP	8.1±0.3	8.2±0.2	0.76±0.02
Marlboro Ultra Lights (silver) 100's 100FHP	8.2±0.1	6.0±0.1	0.55±0.01
Virginia Slims Lights Menthol 100FMHP	8.2±0.2	7.6±0.2	0.64±0.01
Next De-Nic Low Tar Menthol KFMSP	8.2±0.2	7.5±0.2	0.07±0.00
Misty Slims 100's Lights 100FHP	8.3±0.2	8.0±0.2	0.74±0.01
Virginia Slims Lights 100FHP	8.3±0.2	8.2±0.2	0.70±0.02
Tareyton Long Lights 100FSP	8.4±0.2	7.5±0.3	0.66±0.03
Merit De-Nic Low Tar Menthol KFMSP	8.4±0.2	7.7±0.1	0.08±0.00
Newport Lights KFMHP	8.7±0.3	7.5±0.2	0.66±0.02
Malibu Lights KFSP	8.7±0.2	8.3±0.2	0.73±0.01
Next De-Nic Low Tar KFSP	8.8±0.2	8.0±0.2	0.07±0.00
Salem Slim Lights 100's 100FMHP	8.8±0.2	8.5±0.1	0.71±0.02
Next De-Nic Low Tar 100 100FSP	8.9±0.1	8.7±0.2	0.09±0.00
Merit De-Nic Low Tar KFSP	8.9±0.2	8.1±0.3	0.08±0.00
Newport Lights KFMSP	8.9±0.3	8.0±0.2	0.70±0.02
Belair 100's 100FMSP	9.0±0.2	8.5±0.2	0.66±0.02
Capri Super Slim 120's 120FHP	9.1±0.2	13.2±0.2	1.07±0.03
More Lights 100s Menthol 100FMHP	9.2±0.2	8.4±0.2	0.67±0.01
Next De-Nic Low Tar 100 Menthol 100FMSP	9.2±0.1	9.7±0.2	0.09±0.00
Merit Menthol KFMSP	9.3±0.2	7.6±0.2	0.65±0.02
Dunhill International Superior Mild 100FHP	9.3±0.3	8.6±0.3	0.81±0.03
Lucky Strike Lights KFSP	9.3±0.2	7.9±0.2	0.68±0.01
Old Gold Lights KFSP	9.3±0.3	8.4±0.2	0.75±0.02
Eve Slim Lights 100's Menthol 100FMHP	9.4±0.2	11.6±0.2	0.99±0.02
Merit KFHP	9.4±0.2	7.3±0.1	0.61±0.01
Merit KFSP	9.4±0.2	7.4±0.2	0.60±0.01
*Parliament Lights KFHP	9.4±0.2	8.8±0.2	0.71±0.02
Marlboro Lights Menthol KFMHP	9.4±0.2	9.3±0.2	0.78±0.01
Kool Lights 100's 100FMSP	9.4±0.3	8.3±0.2	0.72±0.02
Salem Lights 100's 100FMSP	9.5±0.3	8.0±0.2	0.68±0.01
More Lights 100s 100FHP	9.5±0.2	9.1±0.2	0.75±0.02
Eve Slim Lights 100's 100FHP	9.5±0.2	11.5±0.3	0.95±0.02
L & M 30's Lights 100's 100FSP	9.5±0.2	10.9±0.2	0.84±0.01
Belair Low Price Lights KFMSP	9.6±0.2	8.8±0.2	0.82±0.02
Lucky Strike Lights 100's 100FSP	9.6±0.2	8.5±0.2	0.75±0.01
Pall Mall Red Lights KFSP	9.6±0.2	9.7±0.2	0.80±0.02

* Retested Brand

Rev. 4/30/91

PM3001014559

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Pall Mall Red Lights 100's 100FSP	9.7±0.2	9.8±0.2	0.84±0.02
Chelsea Menthol 100FMHP	9.7±0.2	9.6±0.2	0.74±0.01
Kent Golden Lights 100s Menthol 100FMSP	9.7±0.4	9.4±0.3	0.83±0.02
Parliament Lights KFSP	9.8±0.3	9.1±0.2	0.75±0.02
Benson & Hedges Multifilter KFSP	9.8±0.3	10.9±0.3	0.90±0.03
Chelsea 100FHP	9.9±0.2	10.4±0.2	0.82±0.02
Belair KFMSP	10.0±0.2	10.0±0.2	0.81±0.02
Marlboro Lights 100's Menthol 100FMHP	10.0±0.2	9.3±0.2	0.82±0.02
Harley Davidson Lights KFSP	10.0±0.2	7.7±0.2	0.66±0.01
Eve Lights 120's Menthol 120FMHP	10.0±0.4	11.3±0.3	0.98±0.03
Alpine Lights KFMHP	10.0±0.2	9.0±0.2	0.70±0.01
Alpine Lights KFMSP	10.0±0.2	9.3±0.2	0.74±0.02
Doral Lights Menthol KFMSP	10.1±0.1	9.2±0.1	0.70±0.01
Ritz 100 100FHP	10.1±0.3	9.5±0.2	0.78±0.01
Spring Lemon Lights Menthol KFMSP	10.1±0.3	8.2±0.2	0.71±0.01
Players Lights 25's Menthol KFMSP	10.2±0.2	9.6±0.2	0.76±0.01
Chesterfield Filter Lights 100's 100FSP	10.2±0.2	9.4±0.2	0.78±0.02
Vantage KFSP	10.2±0.2	7.9±0.2	0.60±0.02
Century 25's Lights KFSP	10.2±0.3	8.2±0.3	0.66±0.02
Lark Lights KFSP	10.3±0.2	11.7±0.2	0.94±0.02
Doral Lights 100's 100FSP	10.4±0.3	10.2±0.2	0.88±0.02
Eve Lights 120's 120FHP	10.4±0.2	11.6±0.3	1.00±0.03
Malibu Lights 100's 100FSP	10.4±0.3	8.5±0.2	0.77±0.02
Belair Low Price Lights 100's 100FMSP	10.4±0.2	9.3±0.2	0.89±0.02
Doral Lights KFSP	10.4±0.3	9.3±0.2	0.76±0.01
Players Lights 25's KFSP	10.5±0.2	9.9±0.2	0.78±0.02
Silva Thins Filters 100FHP	10.6±0.4	11.2±0.3	0.94±0.02
Silva Thins Menthol 100FMHP	10.8±0.2	11.6±0.2	0.99±0.02
Vantage 100s 100FSP	10.8±0.2	8.5±0.2	0.65±0.01
Benson & Hedges Lights 100's Menthol 100FMSP	10.8±0.2	9.9±0.2	0.82±0.02
Chesterfield Filter Lights KFSP	10.8±0.2	9.3±0.2	0.74±0.01
Magna Lites KFHP	10.9±0.2	8.6±0.2	0.60±0.01
Merit 100's 100FSP	10.9±0.3	9.1±0.2	0.75±0.02
Winston Lights KFSP	10.9±0.2	9.5±0.2	0.69±0.01
Pyramid Lights 100's Menthol 100FMSP	10.9±0.3	9.9±0.2	0.83±0.02
Pyramid Lights 100's 100FSP	10.9±0.3	10.1±0.2	0.85±0.02
Salem Lights 100's 100FMHP	11.0±0.2	10.9±0.1	0.86±0.02
Marlboro Lights 100's 100FHP	11.0±0.2	10.0±0.1	0.81±0.01
Winston Lights KFHP	11.0±0.3	9.1±0.2	0.61±0.02
Benson & Hedges Lights 100's Menthol 100FMHP	11.0±0.2	10.3±0.2	0.83±0.01

Rev. 4/30/91

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Merit 100's 100FMSP	11.0±0.3	9.3±0.2	0.79±0.02
Dunhill Menthol Mild 100FMHP	11.1±0.2	9.8±0.2	0.92±0.02
Benson & Hedges Lights 100's 100FHP	11.1±0.1	10.8±0.2	0.88±0.01
Kool Milds KFMHP	11.1±0.2	11.5±0.2	0.90±0.02
Alpine Lights 100's 100FMSP	11.2±0.3	9.4±0.2	0.78±0.02
Marlboro Lights KFSP	11.2±0.2	10.6±0.2	0.83±0.02
Marlboro Lights 25's KFSP	11.3±0.3	10.8±0.2	0.85±0.02
Camel Lights KFSP	11.3±0.2	10.7±0.2	0.77±0.02
Camel Lights KFHP	11.3±0.2	9.2±0.2	0.62±0.01
Harley Davidson KFSP	11.4±0.1	10.3±0.2	0.81±0.02
Ritz 100 Menthol 100FMHP	11.4±0.3	10.8±0.2	0.82±0.02
Marlboro Lights 100's 100FSP	11.4±0.3	10.1±0.2	0.82±0.02
Vantage 100s Menthol 100FMSP	11.4±0.3	8.2±0.2	0.62±0.01
Pall Mall Lights 100's 100FSP	11.5±0.3	9.4±0.4	0.81±0.03
Salem Lights KFMSP	11.5±0.2	9.1±0.2	0.70±0.01
Chesterfield RNFSP	11.5±0.3	18.0±0.4	1.18±0.03
Players Menthol KFMHP	11.5±0.2	11.2±0.2	0.86±0.02
Lark Light 100's 100FSP	11.5±0.3	12.2±0.2	1.01±0.03
*Marlboro Lights KFHP	11.5±0.3	10.8±0.2	0.79±0.02
Winston Lights 100's 100FSP	11.5±0.2	10.0±0.2	0.75±0.01
Spring Lemon Lights KFSP	11.6±0.2	9.3±0.2	0.77±0.01
Parliament Lights 100's 100FSP	11.6±0.2	11.5±0.2	0.98±0.02
Players KFHP	11.6±0.2	11.4±0.2	0.90±0.02
Kool Milds KFMSP	11.6±0.2	11.5±0.2	0.92±0.02
American Lights 100's Menthol 100FMSP	11.7±0.3	11.0±0.2	1.00±0.02
Benson & Hedges KFHP	11.7±0.2	14.9±0.3	1.28±0.03
Cambridge Lights Menthol KFMSP	11.7±0.2	11.6±0.2	0.89±0.01
Vantage Menthol KFMSP	11.7±0.3	9.3±0.2	0.68±0.01
Lark KFSP	11.7±0.3	12.6±0.2	1.01±0.02
Cambridge Lights KFSP	11.8±0.2	11.5±0.3	0.87±0.02
Benson & Hedges Lights 100's 100FSP	11.8±0.2	10.4±0.2	0.85±0.02
Malibu Menthol 100's 100FMSP	11.8±0.3	11.0±0.3	0.95±0.02
American Lights KFSP	11.9±0.3	11.1±0.2	0.92±0.02
Pyramid Lights KFSP	11.9±0.3	10.0±0.2	0.81±0.02
Doral Lights Menthol 100's 100FMSP	11.9±0.3	8.7±0.2	0.69±0.02
Kent KFHP	12.0±0.2	10.7±0.1	0.81±0.01
Players 100's Menthol 100FMHP	12.0±0.2	13.6±0.2	1.07±0.02
Kool Milds 100's 100FMSP	12.0±0.2	11.8±0.2	0.96±0.02

* Retested Brand

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PM3001014561

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Winston Lights 100's 100FHP	12.1±0.1	9.9±0.2	0.74±0.01
Players 100's 100FHP	12.1±0.3	13.4±0.3	1.06±0.02
L & M KFSP	12.1±0.3	12.4±0.2	0.97±0.02
Richland 20's Lights KFSP	12.1±0.3	11.5±0.2	0.92±0.02
L & M KFHP	12.2±0.3	12.6±0.2	0.99±0.01
Raleigh Lights KFSP	12.2±0.3	11.3±0.2	0.89±0.02
Viceroy Lights KFSP	12.2±0.2	11.1±0.2	0.89±0.02
Magna Lites KFSP	12.3±0.2	10.6±0.3	0.75±0.02
Satin Menthol 100FMSP	12.3±0.3	10.7±0.3	0.91±0.02
Century 25's Lights 100's 100FSP	12.3±0.3	10.8±0.3	0.91±0.02
Richland Lights 25's KFSP	12.3±0.2	11.3±0.2	0.90±0.02
American Lights 100's 100FSP	12.3±0.2	11.5±0.2	0.99±0.02
Commander RNFSP	12.4±0.5	21.8±0.5	1.45±0.03
Virginia Slims Menthol 100FMSP	12.4±0.2	14.4±0.2	1.08±0.02
Satin 100FSP	12.4±0.3	10.8±0.3	0.90±0.02
Camel Lights 100's 100FSP	12.4±0.3	10.3±0.2	0.77±0.02
Players Lights 25's 100's 100FSP	12.4±0.3	11.0±0.2	0.87±0.02
L & M Super 100 100FSP	12.4±0.4	12.4±0.3	1.01±0.02
Craven A Filter Standard Size RFHP	12.5±0.2	15.2±0.3	1.20±0.03
Montclair Lights 100's Menthol 100FMSP	12.5±0.2	11.1±0.2	0.96±0.02
Heritage Lights KFSP	12.6±0.3	9.9±0.1	0.80±0.01
Virginia Slims 100FSP	12.7±0.2	14.3±0.2	1.09±0.01
Players Lights 25's 100's Menthol 100FMSP	12.7±0.3	10.8±0.3	0.87±0.02
Kent 100s Menthol 100FMSP	12.7±0.3	11.8±0.3	0.92±0.02
Virginia Slims Lights 120's Menthol 120FMHP	12.7±0.3	13.3±0.3	1.08±0.02
Virginia Slims Lights 120's 120FHP	12.7±0.4	13.4±0.3	1.07±0.03
Lark 100FSP	12.8±0.2	13.3±0.2	1.12±0.02
Cambridge Lights 100's Menthol 100FMSP	12.8±0.2	11.2±0.2	0.89±0.02
Spring Lemon Lights 100's Menthol 100FMSP	12.8±0.3	9.9±0.2	0.83±0.02
Lucky Strike Filters 100's 100FSP	12.8±0.3	12.9±0.3	1.08±0.03
Rothmans Special Mild KFHP	12.9±0.4	12.4±0.3	1.05±0.03
Kent KFSP	12.9±0.2	11.6±0.2	0.88±0.02
Century 25's Lights 100's Menthol 100FMSP	12.9±0.3	11.0±0.3	0.81±0.02
Camel Filters KFSP	13.0±0.3	13.9±0.3	0.99±0.02
Craven A KFHP	13.0±0.4	14.1±0.3	1.19±0.02
Montclair Lights 100's 100FSP	13.1±0.3	11.4±0.3	0.97±0.02
Kent 100s 100FSP	13.1±0.3	12.6±0.3	0.96±0.02
Lucky Strike KFHP	13.1±0.3	12.9±0.2	1.00±0.02

Rev. 4/30/91

PM3001014562

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Lucky Strike KFSP	13.2±0.2	12.9±0.3	1.00±0.02
*Pyramid Full Flavor KFSP	13.2±0.2	13.6±0.2	1.05±0.02
*Pyramid Full Flavor Menthol KFMSP	13.2±0.2	13.7±0.2	1.07±0.02
Camel RNFSP	13.3±0.4	21.7±0.4	1.43±0.04
More White Lights 120s 120FSP	13.3±0.3	9.7±0.2	0.78±0.02
Cambridge Lights 100's 100FSP	13.3±0.3	11.5±0.2	0.89±0.02
Saratoga 120's Menthol 120FMHP	13.3±0.3	13.8±0.2	1.10±0.02
More White Lights 120s Menthol 120FMSP	13.5±0.3	9.9±0.3	0.84±0.02
Pall Mall Red Filters KFSP	13.6±0.4	15.1±0.4	1.16±0.03
Spring Lemon Lights 100's 100FSP	13.6±0.2	10.5±0.2	0.86±0.02
Heritage Lights 100s 100FSP	13.7±0.3	10.6±0.2	0.85±0.01
Belair Low Price KFMSP	13.7±0.3	14.7±0.2	1.20±0.02
Marlboro KFHP	13.7±0.3	15.7±0.3	1.12±0.02
Magna KFSP	13.7±0.2	13.3±0.3	0.93±0.02
Raleigh KFSP	13.8±0.2	14.3±0.2	0.94±0.02
Kool RNFMSP	13.8±0.2	21.0±0.5	1.35±0.03
Chesterfield KNFSP	13.9±0.4	22.0±0.4	1.48±0.04
Alpine 100's 100FMSP	13.9±0.2	14.7±0.3	1.11±0.02
Pyramid KNFSP	13.9±0.3	21.4±0.5	1.39±0.03
Belair Low Price 100's 100FMSP	13.9±0.3	14.3±0.2	1.24±0.02
Malibu Menthol KFMSP	14.0±0.3	15.7±0.3	1.22±0.02
*Pyramid Full Flavor 100's Menthol 100FMSP	14.1±0.2	14.4±0.2	1.19±0.02
Marlboro 25's KFSP	14.1±0.3	15.8±0.2	1.14±0.02
Viceroy Lights 100's 100FSP	14.1±0.3	12.6±0.2	0.98±0.01
Saratoga 120's 120FHP	14.1±0.2	14.7±0.3	1.16±0.02
American Filter King KFSP	14.1±0.2	15.7±0.2	1.20±0.02
Malibu Filters KFSP	14.1±0.3	15.8±0.2	1.21±0.03
Alpine KFMHP	14.2±0.3	15.2±0.3	1.05±0.02
Marlboro KFSP	14.2±0.2	15.8±0.2	1.13±0.01
Players RNFHP	14.3±0.5	24.5±0.5	1.81±0.04
Richland Lights 25's 100's 100FSP	14.3±0.3	12.7±0.2	0.98±0.02
Raleigh Lights 100's 100FSP	14.4±0.3	12.3±0.2	0.95±0.02
Richland 25's KFSP	14.4±0.3	16.7±0.3	1.22±0.03
Magna KFHP	14.4±0.4	13.8±0.3	0.92±0.02
Richland 20's Lights 100's 100FSP	14.4±0.3	12.3±0.2	0.95±0.01
Pall Mall Red Filters 100's 100FSP	14.4±0.3	14.8±0.3	1.16±0.03
Newport Stripes Lights 100s Menthol 100FMHP	14.4±0.3	11.4±0.2	0.87±0.01
Newport Stripes Lights 100s 100FHP	14.5±0.2	11.0±0.2	0.88±0.02

* Retested Brand

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Richland 20's KFSP	14.6±0.2	16.7±0.3	1.21±0.02
Marlboro 100's 100FSP	14.6±0.3	15.5±0.3	1.16±0.02
Doral Full Flavor Menthol KFMSP	14.7±0.3	15.2±0.4	1.09±0.02
English Ovals KNFHP	14.7±0.5	23.1±0.5	1.87±0.05
Marlboro Menthol KFMSP	14.7±0.3	15.9±0.2	1.16±0.01
Benson & Hedges 100's Menthol 100FMHP	14.7±0.2	15.9±0.1	1.21±0.01
Old Gold Lights 100s 100FSP	14.8±0.4	11.2±0.3	0.91±0.02
Malibu 100's 100FSP	14.8±0.3	15.4±0.2	1.22±0.02
Cambridge Full Flavor KFSP	14.8±0.3	16.5±0.2	1.13±0.02
*Pyramid Full Flavor 100's 100FSP	14.8±0.3	14.8±0.2	1.18±0.02
St. Moritz Filter 100FSP	14.9±0.3	14.4±0.2	1.08±0.02
Viceroy KFSP	14.9±0.3	17.2±0.3	1.25±0.02
Doral Full Flavor KFSP	14.9±0.3	14.6±0.2	1.09±0.03
Pall Mall 100's 100FSP	14.9±0.4	15.0±0.4	1.19±0.03
Richland 25's Menthol KFMSP	14.9±0.3	15.8±0.3	1.09±0.03
Winston KFHP	15.0±0.3	15.5±0.2	1.03±0.02
Richland 20's Menthol KFMSP	15.0±0.3	15.6±0.3	1.07±0.02
St. Moritz Filter Menthol 100FMSP	15.0±0.3	13.9±0.3	1.04±0.03
Winston KFSP	15.1±0.3	15.6±0.2	1.11±0.02
Benson & Hedges 100's 100FHP	15.1±0.3	15.7±0.2	1.20±0.02
Tareyton KFSP	15.1±0.3	13.8±0.2	1.01±0.02
Dunhill Menthol 100FMHP	15.1±0.3	13.7±0.3	1.21±0.02
Marlboro 100's 100FHP	15.2±0.2	15.8±0.2	1.18±0.02
Camel Filters KFHP	15.2±0.4	15.6±0.3	1.04±0.02
Kool KFMHP	15.4±0.3	15.6±0.3	1.15±0.02
Benson & Hedges 100's 100FSP	15.4±0.3	15.7±0.3	1.17±0.03
Newport KFMHP	15.4±0.3	15.2±0.4	1.14±0.03
American Filter 100's 100FSP	15.4±0.3	15.7±0.2	1.24±0.02
Dunhill International 100FHP	15.4±0.4	15.9±0.3	1.52±0.03
Salem 100's 100FMSP	15.4±0.1	16.0±0.2	1.17±0.01
*Alpine KFMSP	15.5±0.4	15.7±0.3	1.08±0.02
Viceroy Super Long 100's 100FSP	15.5±0.3	18.0±0.3	1.37±0.02
Kool KFMSP	15.5±0.3	16.5±0.4	1.20±0.03
Max 120s 120FSP	15.5±0.4	14.7±0.2	1.16±0.02
*Benson & Hedges 100's Menthol 100FMSP	15.6±0.3	15.8±0.2	1.15±0.02
Commander KNFSP	15.7±0.3	26.4±0.5	1.74±0.03
Kool Super Longs 100's 100FMSP	15.8±0.3	16.4±0.3	1.27±0.02
Richland 20's 100's Menthol 100FMSP	15.8±0.2	15.8±0.2	1.16±0.02

* Retested Brand

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Tobacco Institute Testing Laboratory
Market Sample 33
Sorted Carbon Monoxide Results

Brand	CO mg/cig	"Tar" mg/cig	"Nicotine" mg/cig
Max 120s Menthol 120FMSP	15.8±0.4	15.2±0.3	1.20±0.02
Raleigh 100's 100FSP	15.9±0.2	14.9±0.3	1.00±0.02
Philip Morris International Menthol 100FMHP	15.9±0.3	16.6±0.2	1.29±0.02
Tall 120's Menthol 120FMSP	15.9±0.3	16.5±0.3	1.47±0.03
Cambridge Full Flavor 100's 100FSP	16.0±0.3	16.7±0.3	1.16±0.02
Montclair Full Flavor 100's 100FSP	16.1±0.3	15.3±0.2	1.20±0.02
Pall Mall KNFSP	16.1±0.3	24.6±0.4	1.66±0.04
Richland 25's 100's 100FSP	16.2±0.2	17.1±0.2	1.33±0.03
Raleigh KNFSP	16.3±0.4	24.5±0.6	1.46±0.03
Lucky Strike RNFSP	16.3±0.5	24.1±0.5	1.59±0.03
Richland 20's 100's 100FSP	16.5±0.3	17.4±0.3	1.33±0.02
Rothmans KFHP	16.5±0.3	17.1±0.3	1.34±0.03
Salem KFMSP	16.6±0.3	16.8±0.3	1.20±0.03
Newport KFMSP	16.7±0.3	16.3±0.2	1.22±0.02
Tareyton 100's 100FSP	16.7±0.4	13.7±0.3	1.02±0.02
Doral Full Flavor 100's 100FSP	16.8±0.3	14.7±0.2	1.10±0.02
Philip Morris International 100FHP	16.8±0.2	16.5±0.2	1.25±0.02
Old Gold Filters KFSP	16.9±0.3	16.3±0.2	1.21±0.02
Century 25's KFSP	17.0±0.4	14.6±0.3	0.98±0.03
Newport 25's KFMSP	17.1±0.3	16.4±0.3	1.20±0.02
Doral Full Flavor 100's Menthol 100FMSP	17.1±0.4	14.9±0.2	1.09±0.02
Camel Filters 100's 100FSP	17.2±0.3	16.1±0.3	1.02±0.01
Herbert Tareyton KNFSP	17.2±0.3	24.3±0.5	1.60±0.02
Old Gold Straights KNFSP	17.3±0.5	25.5±0.5	1.79±0.04
More Lights 120s 120FSP	17.4±0.5	11.6±0.3	0.93±0.02
Winston 100's 100FSP	17.5±0.3	16.3±0.2	1.06±0.02
Tall 120's 120FSP	17.6±0.4	18.1±0.4	1.56±0.05
Old Gold Filter 100's 100FSP	17.8±0.3	17.6±0.3	1.36±0.03
More Lights 120s Menthol 120FMSP	18.1±0.5	11.8±0.2	0.97±0.02
Spring 100's Menthol 100FMSP	18.2±0.3	17.9±0.2	1.36±0.03
Newport 25's 100's 100FMSP	18.3±0.3	17.6±0.3	1.35±0.03
Century 25's 100's 100FSP	18.3±0.4	15.2±0.3	1.10±0.02
Newport 100's 100FMSP	18.7±0.3	18.0±0.3	1.37±0.03
Newport 100's 100FMHP	19.2±0.3	18.3±0.2	1.38±0.02
More 120s Menthol 120FMSP	19.9±0.4	15.8±0.2	1.27±0.02
More 120s 120FSP	20.6±0.5	16.2±0.3	1.23±0.02

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Tobacco Institute Testing Laboratory
Market Sample 33

Butt Lengths

Brand	Length - mm
Alpine KFMHP	26,27,28
Alpine KFMSP	27,27.5,28,28.5
Alpine 100's 100FMSP	35,36
Alpine Lights KFMHP	32.5,33
Alpine Lights KFMSP	33,34
Alpine Lights 100's 100FMSP	38,39,40
American Filter King KFSP	26,27,28
American Filter 100's 100FSP	34,35,36
American Lights KFSP	32,33,34
American Lights 100's 100FSP	34,35,36
American Lights 100's Menthol 100FMSP	34,34.5,35,35.5,36
Belair KFMSP	34,35,36
Belair 100's 100FMSP	38,39,39.5,40
Belair Low Price KFMSP	28,28.5,29,29.5,30
Belair Low Price 100's 100FMSP	34.5,35
Belair Low Price Lights KFMSP	34,35,36
Belair Low Price Lights 100's 100FMSP	38,39,39.5
Benson & Hedges KFHP	32,33,34
Benson & Hedges 100's 100FHP	34.5,35
Benson & Hedges 100's Menthol 100FMHP	34,34.5,35
Benson & Hedges 100's 100FSP	34,34.5,35
Benson & Hedges 100's Menthol 100FMSP	34.5,35,36,37
Benson & Hedges Deluxe Ultra Lights 100's 100FHP	38,39,40
Benson & Hedges Deluxe Ultra Lights 100's Menthol 100FMHP	38,39,40
Benson & Hedges Lights 100's 100FHP	38,39,40
Benson & Hedges Lights 100's Menthol 100FMHP	38,39,40
Benson & Hedges Lights 100's 100FSP	38,39,40
Benson & Hedges Lights 100's Menthol 100FMSP	38,39,40
Benson & Hedges Multifilter KFSP	32,33,34
Cambridge Full Flavor KFSP	27.5,28,28.5
Cambridge Full Flavor 100's 100FSP	38.5,39,39.5,40
Cambridge Lights KFSP	34,35
Cambridge Lights Menthol KFMSP	33,34,35
Cambridge Lights 100's 100FSP	37.5,38,39,40,40.5,41
Cambridge Lights 100's Menthol 100FMSP	37,38,39,40
Cambridge Ultra Low Tar 100 100FSP	38,39,40
Camel RNFSP	23
Camel Filters KFHP	26,27
Camel Filters KFSP	28,29
Camel Filters 100's 100FSP	34,35,36

PM3001014567

Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33

Butt Lengths

Brand	Length - mm
Camel Lights KFHP	29,30,31,32
Camel Lights KFSP	33.5,34,35
Camel Lights 100's 100FSP	38,39
Capri 100FHP	34.5,35,35.5,36
Capri Menthol 100FMHP	34.5,35
Capri Super Slim 120's 120FHP	39,40
Capri Super Slim 120's Menthol 120FMHP	39,40
Carlton Ultra KFHP	39,40
Carlton KFSP	32,33,34,35
Carlton Menthol KFMSP	32,33,34,35
Carlton 83 KFHP	32,33,34,35
Carlton 100's 100FHP	37.5,38,39
Carlton 100's Menthol 100FMHP	37,37.5,38,39,39.5
Carlton 100's 100FSP	35,36,37,38,39
Carlton 100's Menthol 100FMSP	35,36,37,38,39,40
Carlton 120's 120FSP	38,39
Carlton 120's 120FMSP	37,38,39
Cartier 100 10's 100FHP	32,33
Cartier 100 10's Menthol 100FMHP	32,33
Cartier 100 20's 100FHP	32,32.5,33
Cartier 100 20's Menthol 100FMHP	32,32.5,33
Century 25's (25) KFSP	29,30,31
Century 25's 100's 100FSP	38,39
Century 25's Lights (25) KFSP	29,29.5,30,30.5,33.5,34
Century 25's Lights 100's 100FSP	37,38,39,40
Century 25's Lights 100's 100FMSP	37,38,39,40
Chelsea 100FHP	37.5,38,38.5
Chelsea Menthol 100FMHP	38,38.5
Chesterfield RNFSP	23
Chesterfield KNFSP	23
Chesterfield Filter Lights KFSP	32,32.5,33,33.5,34
Chesterfield Filter Lights 100's 100FSP	37,38,39
Commander (Philip Morris) RNFSP	23
Commander (Phililp Morris) KNFSP	23
Doral Full Flavor KFSP	28,29
Doral Full Flavor Menthol KFMSP	28,29
Doral Full Flavor 100's 100FSP	37,38,39
Doral Full Flavor 100's Menthol 100FMSP	37,38,39
Doral Lights KFSP	33,33.5,34,34.5
Doral Lights Menthol KFMSP	33,34,35

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33

Butt Lengths

Brand	Length - mm
Doral Lights 100's 100FSP	37,37.5,38,39,39.5
Doral Lights Menthol 100's 100FMSP	38,39
Doral Ultra Lights KFSP	32.5,33,33.5,34,34.5
Doral Ultra Lights 100's 100FSP	37,38,39
English Ovals KNFHP	23
Eve Slim Lights 100's 100FHP	37,38,39
Eve Slim Lights 100's Menthol 100FMHP	37,38,39
Eve Lights 120's 120FHP	37,38,39
Eve Lights 120's Menthol 120FMHP	37,38,39
Eve Ultra Lights 120's 120FHP	38,38.5,39
Eve Ultra Lights 120's Menthol 120FMHP	38,38.5,39
Harley Davidson KFSP	28,29
Harley Davidson Lights KFSP	34,35
Herbert Tareyton KNFSP	23
Heritage Lights KFSP	34,35
Heritage Lights 100s 100FSP	36,36.5,37
Kent Golden Lights KFHP	32,33
Kent Golden Lights KFSP	34,34.5,35
Kent Golden Lights Menthol KFMSP	35,36
Kent Golden Lights 100s 100FHP	35.5,36,37
Kent Golden Lights 100s 100FSP	36,37
Kent Golden Lights 100s Menthol 100FMSP	36,37
Kent KFHP	27,28,29
Kent KFSP	28,29
Kent 100s 100FSP	36,37
Kent 100s Menthol 100FMSP	36,37,37.5
Kent III KFSP	34,35
Kent III 100s 100FHP	36,37
Kent III 100s 100FSP	36,37,38
Kool RNFMSP	23
Kool KFMHP	25,26
Kool KFMSP	28,29,30
Kool Super Longs 100's 100FMSP	35,36
Kool Lights KFMSP	34,35,36
Kool Lights 100's 100FMSP	38,39,40
Kool Milds KFMHP	28,29,30
Kool Milds KFMSP	34,35,36
Kool Milds 100's 100FMSP	38,39,40
Kool Ultra KFMSP	34.5,35,35.5
Kool Ultra 100's 100FMSP	39,40

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33

Butt Lengths

Brand	Length - mm
L & M KFHP	32,33,34
L & M KFSP	33,34
L & M Super 100 100FSP	37.5,38,38.5,39
L & M Long Lights 100FSP	37,38,39
L & M 30's Lights 100's 100FSP	38,39
Lark KFSP	33,34
Lark 100FSP	38,39
Lark Lights KFSP	33,34
Lark Light 100's 100FSP	37,38
Lucky Strike RNFSP	23
Lucky Strike KFHP	32,33,34
Lucky Strike KFSP	32,33,34
Lucky Strike Filters 100's 100FSP	34,35,36
Lucky Strike Lights KFSP	32,33,34
Lucky Strike Lights 100's 100FSP	34,35
Magna KFHP	25.5,26,27
Magna KFSP	28,29
Magna Lites KFHP	30,31
Magna Lites KFSP	33,33.5,34,35,36
Malibu Filters KFSP	36,37,38
Malibu Menthol KFMSP	36,37,38
Malibu 100's 100FSP	34,35,36
Malibu Menthol 100's 100FMSP	34,35,36,37
Malibu Lights KFSP	32,32.5,33,33.5,34
Malibu Lights 100's 100FSP	34,35,36,37
Malibu Ultra Lights 100's 100FSP	37,38,39
Marlboro KFHP	26,27
Marlboro KFSP	27,28,29
Marlboro Menthol KFMSP	27.5,28,28.5
Marlboro 100's 100FHP	34,35
Marlboro 100's 100FSP	34,35,36
Marlboro 25's KFSP	27,28,29,30
Marlboro Lights KFHP	34,35
Marlboro Lights Menthol KFMHP	34,35
Marlboro Lights KFSP	32,33,34,34.5,36
Marlboro Lights 100's 100FHP	38.5,39,39.5,40
Marlboro Lights 100's Menthol 100FMHP	38,38.5,39,39.5,40
Marlboro Lights 100's 100FSP	38,39,40
Marlboro Lights 25's KFSP	33,33.5,34,35
Marlboro Ultra Lights (red) KFHP	34,34.5,35,35.5

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

Tobacco Institute Testing Laboratory
Market Sample 33

Butt Lengths

Brand	Length - mm
Marlboro Ultra Lights (silver) KFHP	35,36
Marlboro Ultra Lights (red) 100FHP	38,39,40
Marlboro Ultra Lights (silver) 100FHP	39,39.5
Max 120s 120FSP	37,38,39
Max 120s Menthol 120FMSP	37,38,39
Merit De-Nic Low Tar KFSP	34,34.5,35,35.5,36
Merit De-Nic Low Tar Menthol KFMSP	35
Merit De-Nic Ultra Low Tar KFSP	34,35,36
Merit De-Nic Ultra Low Tar Menthol KFMSP	34.5,35
Merit KFHP	35
Merit KFSP	34,35,36
Merit Menthol KFMSP	34,35,35.5,36
Merit 100's 100FSP	38,39,40
Merit 100's 100FMSP	38,39,40
Merit Ultra Lights KFHP	35,36
Merit Ultra Lights KFSP	34,35
Merit Ultra Lights Menthol KFMSP	34,35,36
Merit Ultra Lights 100's 100FHP	38,39
Merit Ultra Lights 100's 100FSP	38,39,40
Merit Ultra Lights 100's Menthol 100FMSP	38,39,40
Misty Slims 100's Lights 100FHP	38,39,40
Misty Slims 100's Lights Menthol 100FMHP	39,40
Montclair Full Flavor 100's 100FSP	38,39
Montclair Lights 100's 100FSP	37,38,39
Montclair Lights 100's Menthol 100FMSP	38,39
More 120s 120FSP	41,42,43
More 120s Menthol 120FMSP	41,42,43
More Lights 100s 100FHP	37,38,39
More Lights 100s Menthol 100FMHP	37,38,39
More Lights 120s 120FSP	41,41.5,42
More Lights 120s Menthol 120FMSP	41,42,43
More White Lights 120s 120FSP	41,41.5,42
More White Lights 120s Menthol 120FMSP	41,41.5,42
Newport KFMHP	28,29,30
Newport KFMSP	28,29,30
Newport 100's 100FMHP	36,37
Newport 100's 100FMSP	36,37
Newport 25's KFMSP	28,29,30
Newport 25's 100's 100FMSP	36,37
Newport Lights KFMHP	32,33,34

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Butt Lengths

Brand	Length - mm
Newport Lights KFMSP	34,35,36
Newport Lights 100's 100FMHP	35,36,37
Newport Lights 100's 100FMSP	38,39,40
Newport Stripes 100FHP	35,36,37,39
Newport Stripes 100FMHP	36,36.5,37
Next De-Nic Low Tar KFSP	34,35,36
Next De-Nic Low Tar Menthol KFMSP	34,34.5,35,36
Next De-Nic Low Tar 100 100FSP	38,39,40
Next De-Nic Low Tar 100 Menthol 100FMSP	39,39.5
Next De-Nic Ultra Low Tar KFSP	34.5,35,35.5
Next De-Nic Ultra Low Tar Menthol KFMSP	35
Next De-Nic 100's Ultra Low Tar 100FSP	38,39,39.5,40
Next De-Nic 100's Ultra Low Tar Menthol 100FMSP	39,39.5,40
Now KFHP	34,34.5,35
Now KFSP	33,34
Now Menthol KFMSP	33,34,35
Now 100s 100FHP	38,39
Now 100s 100FSP	38,39
Now 100s Menthol 100FMSP	37,38,39
Old Gold Straights KNFSP	23
Old Gold Filters KFSP	28,29
Old Gold Filter 100's 100FSP	36,37
Old Gold Lights KFSP	34,35,36
Old Gold Lights 100s 100FSP	35,36,37,38
Pall Mall KNFSP	23
Pall Mall 100's 100FSP	34,35,36
Pall Mall Lights 100's 100FSP	37,38,39
Pall Mall Red Filters KFSP	27,28
Pall Mall Red Filters 100's 100FSP	34,35,36
Pall Mall Red Lights KFSP	32,32.5,33,34
Pall Mall Red Lights 100's 100FSP	35,36
Parliament Lights KFHP	32,32.5,33,34
Parliament Lights KFSP	33,34
Parliament Lights 100's 100FSP	38,38.5,39,39.5,40
Philip Morris International 100FHP	35,36
Philip Morris International Menthol 100FMHP	35,36
Players RNFHP	23
Players KFHP	34.5,35
Players Menthol KFMHP	34.5,35
Players 100's 100FHP	39,39.5,40,41

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Butt Lengths

Brand	Length - mm
Players 100's Menthol 100FMHP	38.5,39,39.5,40
Players Lights 25's KFSP	33,33.5,34,34.5
Players Lights 25's Menthol KFMSP	33,33.5,34,34.5,35
Players Lights 25's 100's 100FSP	39,39.5,40
Players Lights 25's 100's Menthol 100FMSP	38.5,39,39.5,40
Pyramid KNFSP	23
Pyramid Full Flavor KFSP	32,33,34
Pyramid Full Flavor Menthol KFMSP	32.5,33,33.5,34
Pyramid Full Flavor 100's 100FSP	36,37,38
Pyramid Full Flavor 100's Menthol 100FMSP	36,37,38,38.5,39,40
Pyramid Lights KFSP	32,32.5,33,33.5,34
Pyramid Lights 100's 100FSP	38,39
Pyramid Lights 100's Menthol 100FMSP	38,39
Pyramid Ultra Lights 100's 100FSP	37,38,39
Raleigh KNFSP	23
Raleigh KFSP	29,30
Raleigh 100's 100FSP	35,36
Raleigh Lights KFSP	34,34.5,35,35.5
Raleigh Lights 100's 100FSP	38,38.5,39,39.5,40
Richland 20's KFSP	29,30
Richland 20's Menthol KFMSP	28,29,30
Richland 20's 100's 100FSP	34,35,36
Richland 20's 100's Menthol 100FMSP	35,36
Richland 20's Lights KFSP	34,35,36
Richland 20's Lights 100's 100FSP	38,38.5,39,40
Richland 25's KFSP	29,30
Richland 25's Menthol KFMSP	29,30
Richland 25's 100's 100FSP	35,36
Richland Lights 25's KFSP	35,36
Richland Lights 25's 100's 100FSP	39,40
Ritz 100 100FHP	37,37.5,38
Ritz 100 Menthol 100FMHP	37,37.5,38,38.5
Salem KFMSP	27,27.5,28,28.5
Salem 100's 100FMSP	34,34.5,35
Salem Lights KFMSP	33,33.5,34,34.5
Salem Lights 100's 100FMHP	36,37,37.5,38,40
Salem Lights 100's 100FMSP	37.5,38,39
Salem Slim Lights 100's 100FMHP	38,38.5,39,40
Salem Ultra Lights KFMSP	33,34
Salem Ultra Lights 100's 100FMSP	38,38.5,39

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Source: https://www.industrydocuments.ucsf.edu/docs/mtkk0001

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Butt Lengths

Brand	Length - mm
Saratoga 120's 120FHP	39,40
Saratoga 120's Menthol 120FMHP	39,40
Satin 100FSP	34,35.5,36,36.5,37
Satin Menthol 100FMSP	35,36,36.5,37,37.5
Silva Thins Filters 100FHP	39,39.5,40
Silva Thins Menthol 100FMHP	38,39,40,41
Spring 100's Menthol 100FMSP	37,38
Spring Lemon Lights KFSP	35,36
Spring Lemon Lights Menthol KFMSP	35
Spring Lemon Lights 100's 100FSP	36,36.5,37,37.5
Spring Lemon Lights 100's Menthol 100FMSP	35,36,36.5,37
Tall 120's 120FSP	38,39
Tall 120's Menthol 120FMSP	38,39
Tareyton KFSP	27,28
Tareyton 100's 100FSP	35,36
Tareyton Lights KFSP	34,34.5,35,35.5,36
Tareyton Long Lights 100FSP	33,34,35,36
Triumph KFSP	34,34.5,35
Triumph Menthol KFMSP	34,34.5,35
Triumph 100s 100FSP	35,36,37,38
Triumph 100s Menthol 100FMSP	35,36,37,38
True KFSP	32,32.5,33,33.5
True KFMSP	32,32.5,33
True 100's 100FSP	36,37
True 100's 100FMSP	36,37
Vantage KFSP	32,33,34
Vantage Menthol KFMSP	33,34
Vantage 100s 100FSP	36,37,38
Vantage 100s Menthol 100FMSP	38,39
Vantage Ultra Lights KFSP	33,34
Vantage Ultra Lights 100s 100FSP	38,39
Viceroy KFSP	29,30
Viceroy Super Long 100's 100FSP	35,36
Viceroy Lights KFSP	34,35,36
Viceroy Lights 100's 100FSP	39,40
Virginia Slims 100FSP	34,35,36
Virginia Slims Menthol 100FMSP	34,35,36
Virginia Slims Lights 100FHP	38,39,40
Virginia Slims Lights Menthol 100FMHP	38,39,40
Virginia Slims Lights 120's 120FHP	38,39,40

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Butt Lengths

Brand	Length - mm
Virginia Slims Lights 120's Menthol 120FMHP	38,39,40
Virginia Slims Ultra Lights 100 100FHP	38,39,39.5,40
Virginia Slims Ultra Lights 100 Menthol 100FMHP	38,38.5,39,39.5
Virginia Slims Superslims 100 100FHP	34,34.5,35,35.5,36
Virginia Slims Superslims 100 Menthol 100FMHP	34,34.5,35,35.5,36
Winston KFHP	26,27
Winston KFSP	27,28,29,30
Winston 100's 100FSP	34,35,36
Winston Lights KFHP	29,29.5,30,30.5
Winston Lights KFSP	33.5,34,34.5
Winston Lights 100's 100FHP	37,38,38.5,39
Winston Lights 100's 100FSP	37,37.5,38,38.5,39
Winston Ultra Lights KFSP	33,33.5,34,35
Winston Ultra Lights 100's 100FSP	37,38,39
Craven A KFHP	24,25
Craven A Filter Standard Size RFHP	23
Dunhill International 100FHP	31,32
Dunhill Menthol 100FMHP	31,32
Dunhill Menthol Mild 100FMHP	30.5,31,31.5
Dunhill International Superior Mild 100FHP	31
Rothmans KFHP	24
Rothmans Special Mild KFHP	27
St. Moritz Filter 100FSP	35,35.5,36
St. Moritz Filter Menthol 100FMSP	35,35.5,36

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